App. F. IX-4

1924-25

P. P.

File No. 30/24

Previous References
PP. 45/23 – 5, 6, 7, 10, 12, 14
PP. 30/24 – 28 to 43

Serial Nos. 1 to 19
22 & 23 & 25 to 27

Later References

Preserve

General and Revenue Secretariat.

Serial Nos. 1 to 19, 22 & 23, & 25 to 27

Part B for April 1928

SUBJECT

Water Supply of the civil and military Station, Bangalore

Sl. 27 pd. no: 332 w/23 rd Sep: 1925

To The Secretary to His Highness the Maharaja of Mysore.

Informs him that as the population of c & m. Station Bangalore has more population than the city it should get it's proportionate share of water and the existing finance also re: Hesaraghatta Tank must be accordingly vary

WD 2910—GPB—10,000—31-5-24

eneral and Revenue Secretariat

P.P. File No. 36 of 1924

Serial No. 1

From

The Secy to the Resident

No 668047 21/8/24

Stating that it is proposed to hold a conference at the Residency at 3 P.M. on the 28th August to discuss the question of water supply to Cantonment with reference to the recommendations of the Committee and that the Resident will welcome the presence of a representative of the Mysore Govt if they desire to depute any one.

Sub 2 with references for orders.

2/ v In the file re. the agreement dt 21/8 re. water supply to Cantonment Mr Bhore has noted We may perhaps be asked to attend the conference

Ch Secy 21/8

NOTE—Contn. sheet.

WD 2310—GPE—10,000—31-5-24

General and Revenue Secretariat

P.P. File No. 30 of 1924

Serial No.

B Sides

1 The file about increasing the storage capacity of the Hessarghatta tank & trying experiments made on the Hessarghatta tank & in the Dharmgat valley which was sent to the Hon'ble Dy/C on 7-1-24 is ascertained to have been submitted to Dewan on 16-8-24 by the Secy. P. W. D.

2/ 22/8.

3 The questions involved are technical, financial & political I am not sure whether it is desirable that any one should attend a conference of the kind proposed. Reports from circumstances are not noted. It seems better for us to await official intimation communications from the Govt

Dewan

4 Bellary C.E. to give a note about the storage of the melting reports

22/8

5 22/8/24

DEWAN'S OFFICE,
RECD. ON 22. AUG. 1924
Reg. No 1269

NOTE—Contn. sheet.

Serial No.

In the meantime the letter may be acknowledged and D^y informed that the M.G. needs to be submitted in the Conf. at this stage as very up. time & cannot be authorised before any person like the C.P.S. Station authority formulate definite proposals for the consideration of the Mysore Govt. They will be asked whether the proposals involve material alterations in the existing arrangements. Change in the financial aspect may also be noted.

4
23/8.
S Department
23/8
Sd/- 23/8
9 Sirs with 2 Drafts.
2/ illegible
G. 23/8
Chf Secy)
Sd/- 23/8

NOTE—Contn. sheet.

10 Intend in person Bangalore 24/8 to be attended to by the Bangalore committee on 25 attended to by them
25/8

WD 2310—GPE—10,000—31-5-24

General and Revenue Secretariat

File No. 74 of 1924

Serial No.

DE[illegible]FICE,
RECD. ON 25. AUG. 1924
Reg. No 15-29

1 I sent these papers to Mr Blunt personal, & we had a personal discussion. Keen of the opinion that there is no necessity at this stage for our participating in the Conference as for his being present. That his being present and offering any technical opinion may possibly cause embarrassment. He thinks that perhaps we might as a matter of form not participate. Mr Blunt has not yet arrived

25/8
Dewes)
12 As noted
25/8

13 Issued
26/8
26/8

2 To Sir Secy to the Resident
No Pol 208 dt 26-8-1924
States that H.H. Govt do not propose to participate in the conference

NOTE—Contn. sheet.

WD 2310—GPE—10,000—31-5-24

General and Revenue Secretariat | P.P File No. 30 of 1924

Serial No.	
	or to send a representative at this stage but would be glad to furnish any information or data that may be required for the discussion at the conference.
3	To The Exh. Engineer No 9 1545 dt 26-8-1924 Ten copies of the report submitted by Mr. Mullenix on the water supplies & canteen station and a letter from the Asst commanding Royal engineer and requests him to furnish Govt with a detailed note on the subject
4	From The Chief Engr No 658 M 25/8/24 Requesting that copies of certain reports referred to in the Mullenix report may be obtained.
14	Sent with a draft to the Residency.
15	The attention of the Surgeon's report is made in Mullenix's report.
	2/ [illegible] 30/8 dt 30/8 to Asst Mobly

NOTE—Contn. sheet.

General and Revenue Secretariat. | P.P File No. 30 of 1924

Serial No.	
5	To The Secy to the Resident No Pol 240 dt 9.9.1924 Requests that a copy each of the reports of Cols. Mahon and Ronald and the working tables prepared by Sjt. Swan referred to in Mr. Mullings report may be sent
6	From The Secy to the Resident No 4396 dt 15/9/24 Forwarding a Co each of the reports called for in Sl. 5. 17 Sets with a draft to the Chief Engr 15/9 16/9 1619. 18 Issue MW16/9
7	To The Chief Engineer D.O.No 2099 dt 18.9.1924 Sds a copy each of the reports and requests that they may be returned with the note called for therein in Sl 5
8	From The Chief Engineer D.O 224 dt 16/10/

NOTE—Contn. sheet.

G. R. S. III 2]

WD 2310—GPB—10,000—31-5-24

General and Revenue Secretariat.

P.T. File No. 30 of 1924

Serial No.

N + M

Forwarding a note on the proposals made on the Bushire's report regarding the transfer of the Political Relations to the Central Secretariat.

I send with references and copies of the two agreements referred to in the Note re "The result of the Conference held on the 29th August 1924 has not yet been communicated by the Residency -

re The file relating to the renewal of the Jewel Fillers Agreement is also linked to this.

29/10 re Please put up a tab slt. showing the several proposals and Mellaigs & Mr Bhore's view against each

Mw 1/4

NOTE.—Contn. sheet.

WD 2310—GPB—10,000—31-5-24

General and Revenue Secretariat. | P.P File No. 30 of 1924

Serial No. 9

From The Secy to the Resident

No 8604 / 45-1899 dt 1-11-1924

Forwards a copy of the minutes of the conference and enquiries the views of the Mysore Govt. on Mr. Mullings's proposals and the suggested programme of work

U/S Subd. for perusal

24 A Statement of the proposals with the Ch Engineers remarks against each will be put up after the return of the file

1.11.24 TSR 1/11

Mw 4/4

Ch Secy 25/25 Ent/Mw 3/4

3/11

U The Report of Mr. Mullings on the improvement of the Water Supply of the Civil and Military Station which was received with Residency letter dated the 21st August 1924 was forwarded to the Chief Engineer for remarks and his note on the suggestions contained in this and previous reports of British Indian Engineers on the subject is placed in the file. The Residency have also since forwarded a copy

flag D

flag E

NOTE —Contn. sheet.

Serial No.

Pg 9.

copy of the minutes of the Conference held on 28th August 1924 to discuss Mr. Mullings Report and called for the views of Government on Mr. Mullings proposals and the suggested programmes of work and ask whether Government accept them in principle and will be prepared to bear their share of the cost in such proportion as may be mutually agreed upon. This matter was discussed between the Chief Secretary and the Chief Engineer (when I was also present) and the following views in regard to the points raised in the report of Mr. Mullings were arrived at. The substance of the proposal is that the storage in Hessarghatta tank should be increased. This has to be accepted not merely from the Civil and Military Station point of view but from the City point of view also. The present requirement of the City is an average of 1.75 million gallons and a maximum of two million gallons of water per day. We are not getting this quantity at present but are rationing because the capacity of the rising main is inadequate. Twenty years hence it may be sufficient for the present to look ahead so far the requirements may be taken as an average of 2 1/2 million gallons per day. It would be impossible to meet this demand and give as much to the Station from the present storage. × The storage has therefore to be increased.

2) The next question is by how much the storage should be raised. Mr. Mullings proposes an increase of 8 ft. to give an supply of six million gallons a day which is estimated as the requirement thirty years hence. Mr. Bhore considers that ~~it is not safe to the bund to raise the storage by 8 ft. and~~ it is not necessary to raise the storage more than 8 ft. and

NOTE—Contn. Sheet.

Serial No.

~~even otherwise that the increase of evaporation consequent on increased water spread would nullify any benefit expected from the extra storage.~~ He therefore is of opinion that it would be safe and for all purposes sufficient to raise it by 5 ft. This will dispense with any strengthening of the bund as suggested by Mr. Mullings as the present bund is strong enough for a 5 ft. increase of storage and all that would be necessary is to raise the weir level. The increase of 5 ft. in the storage raises the supply by about 50 per cent. The present storage being taken to give an average supply of 3_2 million and a maximum of 4 million gallons per day the increased storage would give an average of about 5 million gallons and a maximum of about six million gallons a day, i.e., an average of a little over $2\frac{1}{2}$ million gallons would be available for each of the two areas - City and Station.

(b) 28 This amounts to saying that in consideration of the requirements both of the Civil and Military Station and of the City, now and for about twenty years hence, it is necessary to raise storage in the tank by 5 ft. and that it is safe to do so. It ~~is not~~ safe to raise storage ~~any higher~~. As the supply of a 5ft.

NOTE —Contn. sheet.

5ft. increase gives only an average of about 5 million gallons per day, it is not safe or possible to get from this tank an average supply of 6 million gallons a day as suggested by Mr. Mullings.

Serial No.

29 Mr. Mullings proposes that there should be a separate conduit from the tank for the Civil and Military Station supply. There is no objection to the Station having a separate conduit but it would be more economical to have a joint conduit as at present. In case the Station authorities wish to have a separate conduit there will have to be a junction chamber to gauge the supply ~~where they branch off.~~

30 Mr. Mullings proposes that filtering for the Station should be done at Turbanahalli and not as at present at the combined Filters. There is no objection to the Station having its own filters at Turbanahalli. It is, however, proposed in the report that the Mysore Government might buy out the Station share of the present filters. This cannot be agreed to because we do not need the whole capacity of the present filters. If the Station authorities wish they may carry away their share of the Jewell Filters machinery. If the Station authorities do not have separate filtering we shall have to increase the capacity of the present filters to the increased storage and supply and share the cost equally

31 Mr. Mullings proposes that the storage at High Ground should be increased. This is necessary and may be done.

The cost of the improvements proposed above will be as below:-

U.O. No. 231/PP/11/11/24

Serial No.		Lakhs.
1.	Raising the weir and providing shutters	2½
2.	Common duct to convey six million gallons of water per day. ..	5
3.	Filter, (if the Station authorities do not separate) @ ½ a lakh for ½ million gallon more per day immediately. ..	½
~~4.~~	~~High Ground storage tank .. .. ..

U.O. No. 578 13-11-24

Serial No.

35 Returned, with compliments to the Chief Secretary to Government.

36 2. The typed note indicates my views correctly except as regards a few points.

37 Towards the end of paragraph 1 of the note it is mentioned that twenty years hence the requirements of the City may be taken as an average of 2 million gallons per day. This should be corrected to 2½ million gallons. However for the decade 1924-34 the quantity of water required for City and the Civil and Military Station as per Clause 8 of the Agreement may be fixed at 2 milli gallons per day each after the weir is raised. This will enable us to see the effect of raisi the reservoir by 5 feet. If found necessary this limit may be raised to 2½ million gallons for decade 1934-44.

38 Paragraph 2 contains the statement that Mr.Bhore considers that the bund is not safe to raise the storage by 8 feet. This is not exactly what I meant. I do not consider it necessary to raise the storage by more than 5 feet for the present. The idea, all along, has been to raise the weir only by 5 feet. General Sorsby expressed his doubts about the capacity of the bund to stand even this increase of storage. But I consider it safe to raise storage by 5 feet. At the meeting at the Residency held in August 1923, the Chief Engineer, Southern Command, the Commanding Royal Engineer and Assistant Commanding Royal Engineer considered this only. Mr.Mullings

Note—Contn. sheet.

WD 395—GBP—5000—31-8-23

87

Serial No.

Mr.Mullings considered additional raising possible. I have explained in paragraph 11 of my note that with storage at 5 feet more, it will be sufficient to carry us through such bad seasons as we have seen previously. This storage would be quite enough for another 20 years. I have stated in paragraph 12 of my note that the maximum draw off 6 million gallons a day is not likely to take place until after two decades from now and that if at that time, it is found that the storage is not adequate it would be no difficult matter to effect further improvements. The storage capacity with 8 feet additional storage has not been surveyed and Mr.Mullings figures are probably only interpolations. The capacity with 5 feet additional storage has been calculated, and it is enough for the present to go up to this height. After watching the behaviour of the bund and the extra storage ror twenty years more, further raising may if found necessary then, be taken up.

39 The existing duct is leaking badly and th loss will cease to exist after construction of new conduit. Though the present average supply to the city and the Civil and Military Station is only about 3½ million gallons per day, the actual draw off from the reservoir is more than 3¾ million gallons and if the storage is increase by 50 per cent, the available supply will increase to nearly 6 million gallons.

WD 395—GBP—5000—31-8-23

Note—Contn. sheet.

Serial No.

40 The concluding sentences of paragraph 3 of the typed note do not represent my views at all. I did not suggest that it is not safe or possible to get from the tank an average supply of 6 million gallons a day as suggested by Mr.Mullings.

41 The question of increasing the storage at High Ground does not concern the Mysore Government. It is solely for the Civil and Military Station to consider; the cost is to be borne by them.

42 The question of the Mysore Government sharing the cost of increasing the capacity of the present filters has to be considered if the Civil and Military Station give an undertaking not to separate for a definite period which may be fixed by you. Our present share in the filters is quite sufficient to meet the requirements of the city for about 5 years more.

12-11-24

Chief Engineer of Mysore.

Bangalore,

November 1924

WD 395—GBP—5000—31-8-23

G

G. R. S. III-2]

WD 2310—GPB—10,000—31-5-24

General and Revenue Secretariat.

P.P. File No. 30 of 19 24

Serial No.	
	C. & J. Br
43	Report ordered that all future capital expenditure in the Kesara Channarajendramala works will be debited to the Bangalore City and must be put up separately by C.M. Br 15/12
44	A copy of G.O. No. L. 6058-65/Mul. 176-19-25 dated 19.4.22 referred to above is put up. Subd 15.12.24 (Encl) S.O. 15/12
45	Rs. 15 lakhs sanctioned for maintenance works. Is there no order re future capital cost? (Immediate) S.O. Br 15/12
46	A copy of G.O. No. L 2669-72 Mul 176-19-27 dt 13/14 Sept 1922 directing that the capital cost of all future developments of the Water Supply Scheme in the Bangalore City should be borne by the M.C.C. is put up. The question relating to the Mysore City Water Works is said to be still under consideration in the P.W.D. HPK 15.12.24 (Encl) S.O. Br 15/12 (Encl) 15/12

GENERAL & REVENUE SECRETARIAT 15. DEC. 1924 LOCAL SELF GOVT. BRANCH

NOTE—Contn. sheet.

Serial No.

49 The main points for consideration are
(1) the necessity for increased water supply;
(2) the means to secure this; and
(3) the cost, & the programme of work to be undertaken.

50 As regards (1), there can hardly be any doubt the City & the C. & M. Stn are now supplied to draw an average of 1.3/4 million gallons water daily ~~with a~~ max. of 2 million gallons on any one day. But the City is almost always, and the C. & M. Stn is frequently, subjected to rationing. At the commencement of the decade 1914-1924 it was agreed that an average 1 3/4 million gallons a day was required for each area. It is not surprising that this is found inadequate now at the beginning of a new decade 1924-1934, and the inadequacy will be more keenly felt in the coming years. It is necessary therefore to take steps, betimes, to improve the available supply, and in so doing we must look at least 20 years ahead. Mr Bhore thinks that

NOTE—Contn. sheet.

Serial No.

twenty years hence the overall requirement may be taken at 1½ million gallons a day, as million gallons for the two areas.

5| 3 Per contra, the following points may be noted:—

(1) Whilst with a large population commitment less water than the CPM No. the daily consumption averages 1½ gallons a head in the city 117 gallons ahead with the CPM the explanation probably is that the control over waste is less efficient in the CPM No. 2 but further the city is now getting only about 1·60 million gallons daily, an amount the unsatisfactory state of our rising mains. If a new rising main is laid (which should be done in any case) the city will be in a position to draw up to the 1·75 million gallons that it is entitled to and this may meet the requirements of the city for a short time to come. This however will not be of a short duration and there must be substantial improvement in both the areas, for the question of adequate water supply is an urgent problem.

4 If it is agreed that adequate water supply

WD 2610—GPB—10,000—31-5-24

General and Revenue Secretariat. | P. P. File No. 30 of 1924

Serial No.

should be provided, Mr Rk and proposal to increase the storage of ~~both~~ the Hessaraghatta reservoir by 8ft by raising the walls & the height should not exceed 2 lakhs may be approved. Sir Mukunda proposal to raise the standard 8 ft ~~may be~~ involves strengthening of the bund & this Extremely doubtful whether the increased water spread will not be counterbalanced to a great extent by loss by evaporation.

53 5 Mr Rhue has raised the question whether in case the capacity of the Hessaraghatta reservoir is increased the ~~extra cost~~ CPM (or Com) can claim a share in the ~~use~~ Extra quantity water stored. Legally perhaps we can insist the whole ~~the expense~~ ourselves and reserve to ourselves the Extra Stock This however does not appear to be within the range of practical politics. The CPM. & the ryots demanding for more water and

NOTE—Contn. sheet.

it is not possible for us to deny to the
populations that area the same
average daily consumption per head of
population as we may secure
to the city. But it is an important
point for consideration whether
in regard to any additional supply
that may be made available, we should
agree to go in equal shares. The city
population is larger than that of the Com.
Dn. It can go on growing almost
indefinitely on 3 sides. The Com. Dn
on the other hand is a circumscribed
area - its extent cannot grow. So
in view of this, it seems desirable that
the additional supply should be made
available at the expense of the Rome
pt, and the extra water should
beat the disposal of the Rome pt
- and a separate pipe should be made available
to the Com. Dn. for so much of that
area the same average consumption
per head of population.
6 Mr Mullins proposes that there should be
a separate conduit for part to tank
to the Com. Dn. Mr Barnes has no objection
to this, but points out that there will
have to be a junction chamber
in which the supply heads
that it will be more economical
to have a common conduit. This will
entail locks.

Mountain streams will also spring up more larger water at

WD 2310—GPB—10,000—31-5-24

General and Revenue Secretariat.

P. P. File No. 30 of 1924

Serial No.

Necessity raising the standard of efficiency and providing adequate reserves to ensure a maximum daily supply of 6 million gallons a day is estimated at 7 lakhs.

In addition replacement of capacity of 1½ million gallons per day is necessary. This will cost 1½ lakhs.

55 7 Megarkhas of cut can only be settled after a decision is come to on the main point whether the additional storage is to be at the disposal only the Supreme Govt or to be equally at the disposal of the Supreme Govt & the Corporation. ~~Before the~~ Before the further question of the liability of the City Municipal Council to pay for the a portion of the capital cost, it must be understood that all future capital expenditure connected with Bangalore City water supply works should be borne by the Municipal Council. Before the question is further considered it appears necessary to consult the Municipal Council to ascertain its views on the question.

NOTE—Conton. sheet.

involved so far as they are concerned, i.e. as regards their actual requirements, and the provision of this share capital will not by the Capital Issues Committee

DEPARTMENTAL OFFICE,
RECEIVED 17 DEC. 1924
Reg. No. 4H.24.

raising Main, viz. B & Lakes.

5b Mr L. H. Lees may also be requested to give his opinion on the point raised in para 5 of this note, viz. whether any addl shares must be taken up pro rata by the Govt in equal shares.

Mr
Lees
Dec 17/24

DEWAN'S MINUTE.

General and Revenue Secretariat — File No. 192 .

Date of submission	Date of Return	Date of issue of orders in the Secretariat	Remarks

57 The whole question of water supply of Bangalore has to be dealt with after taking into account the previous understandings on the subject between the Mysore Government and the Civil & Military Station Administration. What is or what is not an adequate supply to the C & M Station has to be agreed to in the agreement for the next decade. It is obvious that under the existing arrangements it is not possible to give more water to the C & M Station. The Station limits are not to be extended further and if the place is congested and more houses are built, a large influx of population takes place the Mysore Covernment are under no obligation to supply more water On the other hand, there is every possibility of the Bangalore City Municipal limits being extended and the population growing rapidly and the Mysore Government have to take into account this fact in sanctioning expenditure for developments.

58 In view of the past history of the project to which the British Covernment contributed, they cannot be allowed to participate in any further scheme of development even if they pay a moiety which will mean restricting the share that will be absolutely necessary for the population residing within the City limits. The utmost that we can therefore agree to is to give the C & M Station 2½ million gallons maximum in any one day, and the rest should be at the disposal of the Bangalore City Municipal Council. If the apportionment of the extra water as aforesaid is agreed to, then the cost of the works suggested by Mr. Bhore may be divided between the two Administrations in the same proportion.

59 The L & L Secretary may be asked to give his opinion after reading the previous agreements as to whether this can be done

A

Date of submission	Date of Return	Date of issue of orders in the Secretariat	Remarks

and a letter should go immediately to the Municipal Council, Bangalore City, asking how they propose to finance the scheme - whether by raising a loan and providing interest and sinking fund charges from the enhanced Water Tax and additional Water Tax to be levied on further extensions. The total cost estimated is 15½ lakhs of rupees out of which the cost of the common duct may be debited to the C & M Station and half the cost of raising the storage by five feet. After receiving the L & L Secretary's opinion, a draft letter should be put up by the Chief Secretary for early consideration in Council and submission to His Highness for approval on the lines indicated in this minute.

B.

C.

C. Hayward
19 JAN 1925

~~L & L Secy~~ P.P.
60 B. / for letter to Municipality
19.1.25

61 A draft is submitted
20/1/25
62 Please put up a typed draft as revised
23/1
typed & put up
63 A draft to the Municipal Council is submitted
24/1

WD 1938--GPB--500--2-5-23

25)

III

10/2/25

LOCAL AND [illegible] SECRETARIAT

PROTECTION BRANCH

64 A draft re B, in the Dewan's minute of 19.1.25, is put up for appl. before issue.

65 After issue, the points at A & C will be attended to without delay.

30.1.25

Dewan) 66

DEWAN'S OFFICE
RECEIVED 30 JAN. 1925
Regd. No. 5511

67 Issue above & send to L.& L. Secy.

4.2.25,

4/2

Secno.10 To The Municipal Commissioner
Bangalore city Municipality

No P. 6030 Dt 4.2.1925

Requests him to obtain and forward the views of the municipal council on the proposals as well as on the question of how they propose to finance the Schemes

68 Submitted with refce to orders in para 67 supra.

5/2/25 TSR. 69 Subt to L & L. Secy with refce to part 5/2, marked A in Dewan's minute (Paras 9 of notes)

5/2

To Dy 6/2 8 9/2

WD 2310—GPB—10,000—31-5-24

General and Revenue Secretariat. File No. of 19

Serial No.

71 Sir. I The agreements referred to in this reference is in relation to clause 8 of the agreement of 1892 which fixes the rights to the waters being shared equally & the quantity of water to be supplied being fixed at every decade. The right to any increase in waters that may be drawn from any increased storage depends on the quantity given at each decade. Any excess of water over that seem to be at the complete disposal of the Mysore Govt. Sir, I forwarded

Recd 16/3/25

Chief Sec[y] with compts

16.3.25

My opinion is enclosed in the Secretariat

Summary of points raised in this letter is prepared

NOTE—Conton. sheet.

ON MYSORE GOVERNMENT SERVICE.

Opinion of Mr. B. Nagappa, Bar-at-law, Local and
Legislative Secretary re: Water supply &
Gen C. & M. Station

Chief Secretary to Government.

Serial No.

73. A summary of points raised in the files and the linked files, together with the opinion of the Chief Engineer on the several points, is placed below for orders. On the assumption that the opinion of the Chief Engineer will be accepted in respect of the ~~various~~ points raised, a draft letter to the Residency communicating the views of the Durbar, is also prepared ~~for~~ and placed below for consideration.

74. Subject with reference to the instructions in the minute dated 19.1.25.

75. Two other connected files are also placed below for perusal and orders.

DEWAN'S OFFICE
RECD 6 APR
No. 7458.

76. Dewan). 2.4.25.

Please send the draft letter to Mr Rose for scrutiny of the technical portion.

5.

Forwarded, into Compliments, to the Chief Engineer in Mysore.

Submitted for Dewan's orders. 9.4.25 Ch. Secy

11/4/25 14/4 9.4.25 Ch. Secy

PUBLIC WORKS DEPARTMENT
RECD 12009
14.4.25.

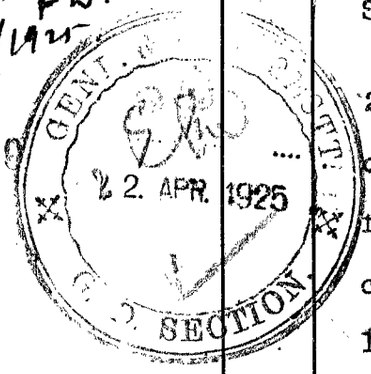
NOTE—Contn. Sheet

Serial No.	
	Two drafts are submitted. sent 20.4.25. Jme alance hm 20.4.25
15	D.O. no. 2482 to the Secy to the Resident. dt 20.4.25 states that the Mysore govt have no objection to depute Mr. Bhore for the Conference.
16	to Mr. Bhore - D.O. no. 2483 dt 20.4.25 forwards copies of the above and states that govt have no objection to his taking part in the discussions relating to technical matters without committing the govt in any way to his opinions and requests that an informal report of the proceedings may be sent.

Serial No.

W.O.N.121
PW.
5/22/4/1925

43119



Returned, with compliments, to the Chief Secretary to Government.

2. The draft is slightly modified embodying certain suggestions on technical points and the fair draft as modified is herein enclosed for consideration. I have no remarks to offer on the last paragraph which is retained, as it is, without any alteration as it involves political issues.

3. The reply proposed deals also with the Residency letter No.1208/45-1899 dated the 11th February 1925.

J. McElroy 22-4-25
Chief Engineer of Mysore.

Bangalore,
April 1925.

Enclosure, 4 duplicate fds

Recd. from L. of L. Secy after ref^a in connection with the proposals of the Chf Engr M. Cl. for raising bund &c. (Vide routine note below). M

The draft as amplified by the Chief Engr on the technical points, is placed below. X A

M 1.5.25

Devaswom

DEWAN'S OFFICE,
RECD. ON 2. MAY 1925
Reg. No 8782

L of L Secy
with Compts
M 4.5.25

M 4/5
MW
4/5
SS

NOTE—Contn. Sheet

Serial No.

A note has already been made regarding the proposals of the Bangalore Municipality. A file has been forwarded to the Secretariat as was mentioned yesterday.

L. Secy)

Chief Secy
Legal Comptr

C.B. put up the Chief Engr's D.O. letter regarding Hebbal Lake to-day. Hebbal is at present -

This may be sent in continuation of Secretariat's note on previous page -

Please see note in the other file

Chief Secy
Legal Comptr

REPLY.

(To be written on this margin.)

Office of the Dewan of Mysore.

NOTE.

Dated.....14th May.....1925

The draft letter to the Residency regarding the Water Supply question may be expedited.

LD
14.5

Chief Secretary to Govt.,
with compliments.

In the Conference X since held, at the Residency on the 1st May, the Ch. Engr., Southern Command, Poona, has agreed to all the suggestions of Mr. Blunt. A para has accordingly been added in the draft recd. from Mr. Blunt.

The file re financing of the Improvement Scheme by the City Municipality is also linked.

Dewan) please 15/5/25.

(C424)
placed below.

Flag "R"

The draft may be submitted to Govt. with a view to issuing orders on Resr. thereon.

Await orders on Resr. letter sent on 16th. 15/5/25.

ROUTINE NOTES.

[To be used only for notes, requisitions, etc., not intended for permanent record.]

Bangalore Water-supply Improvement Scheme.

Letter since received from the Residency is subd for perusal in continuation of the connected files ~~above~~ sent up earlier this day.

The draft reply proposed in the file # requires to be changed now. In fact a fresh draft on the points remaining for consideration has to be prepared. This will, if approved, be taken up at once

15.5.[illegible]

Dewan)

Ref. Marked as returned by Chief Engineer

needful

N. B. -Shouldroutine notes be written on small slips the notes must b cipoed, or slips pasted on this form.

G. R. S. III—3J

ROUTINE NOTES.

[To be used only for notes, requisitions, etc., not intended for permanent record

The revised draft reply, placed below, is forwarded, unofficially to the Chief Engineer in Mysore for favour of scrutiny and return with his remarks, if any. The matter is urgent and the reply has to be sent without avoidable delay

W. Ramaratnam
Ch. Secy to Govt

W.R. 35/CB
D 28/5/25

To The Chief Engr
in Mysore
with Compts
Memo No 145 PWD Dy 26/5/25

Returned, with compliments.

2. The draft seems suitable. I have suggested slight verbal modifications in para 3 - vide a separate slip attached in juxta position.

J. W. Thomas
26.5.25

Chief Engineer of Mysore

Bangalore,

26th May 1925.

Attached for
a D.S.W.N. B.—27.5.25

9th

File Tuticorin Revolvers 2075 returned 30/5 RW

Serial No.

D.S.N is asked.

Issue 25-5-25

~~I have said nothing in it as regarding the points taken in para 7 this draft reply of the R.H. The position is that the Tuticorin should give up the cart but that we should get more than 1/3 of the weekly sales may require some thing in the draft letter. A sentence may have to be added in this draft D.S.N.~~

The sentence in Rhenius's (or D.S.N's) letter that the Tuticorin can give no value for the Mill S.N's share of the present fittings may be considered later as seems to require an answer at this stage to the effect that separation after Tuticorin is not objected to, but that we shall not be able give any value for their share of the fittings they may carry away their share of the machinery if they like.

RW
31/5

(Ch. Secy)

Put up a clean typed copy today of the D.S.N. hm 1.6.25

A draft letter of D.S.N. are put up as directed in the Dewan's order of 16.5.25.

hm 2.6.25

Dewan

6/6

DEWAN'S OFFICE.
RECD. ON 2 JUN. 1925
Reg. No. 9083.

NOTE—Contn. Sheet

Submitted to His Highness.

These papers relate to the question of improving the water supply of the City and the Civil and Military Station of Bangalore.

2. The Residency wrote to us in February and in June last year regarding their intention to have the water supply of the Civil and Military Station investigated by a British Indian Engineer and on the second occasion they requested that the Engineer deputed, viz., Mr.Mullings, might have the co-operation of our Engineering Department in the investigations in connection with the Hesserghatta Tank. This was acceded to. With their letter No.6680/45-1899 dated 21st August 1924 the Residency forwarded the report made by Mr.Mullings which, among other proposals, recommended the raising of the Tank bund by 8 feet and the separation of the supplies to the City and the Civil and Military Station completely in all stages; Government having to pay the Civil and Military Station a half share of the cost of the common works and the value for the Civil and Military Station's share of the existing works which they would give up, in separating completely from the City. The report was considered by a Conference called by the Residency. Our Engineers were not present at this meeting. There was a suggestion that a representative of the Government would be welcome but it was not considered desirable at that stage to send any of our officers to the Conference. The Residency sent a copy of the Minutes of the Conference with their letter No.8604/45-1899 dated 1st November 1924 and asked for the views of Government on the programme of works proposed and the distribution of the cost between the Civil and Military Station and the Government. This matter was taken up for consideration with the Bangalore City Municipality on the question of their meeting the cost of the works and the arrangements they would make for the purpose. In the meanwhile, a further

reference was received from the Residency suggesting an informal conference between the Chief Engineer, Southern Command, Poona, who was visiting Bangalore, the Assistant Commanding Royal Engineering, and the Chief Engineer of Mysore, in view of some difference of opinion on our part regarding the works actually necessary to be carried out for the improvement of the water supply. The Chief Engineer was accordingly deputed to attend this Conference which was held on 1st May 1925. As a result of the discussions, the suggestions of the Chief Engineer, Mr.Bhore, as to the technical details have in the main been agreed to by the Military authorities, i.e., the Chief Engineer, Southern Command, Poona. In communicating the details of the scheme, as thus modified, the Residency have asked that steps be taken to give effect to the scheme.

3. The scheme as now proposed consists of the following items of work:-

(i). To raise the weir level of the Hesserghatta Tank by 5 feet so as to store 5 feet more of water as the present supply is not quite sufficient for the growing needs of the City and the Civil and Military Station.

(ii). To have a new pipe for the use of both the City and Civil and Military Station leading water up to Turbanhalli as the present common duct is very old and damaged. The pipe will be capable of conveying six million gallons a day if required.

(iii). To separate the two systems from Turbanhalli, the Civil and Military Station being free to arrange for its own filtering.

4. It is proposed that the cost of items (i) and (ii) above be shared equally between the Civil and Military Station and the City. Each share is expected to come to about 3.25 lakhs.

5. There is need for improving the water supply of the City and the arrangements agreed upon provide for the supply of a maximum of 2½ millions a day for each area which is all

that may be required for some 20 years more. There is also no objection to let the Civil and Military Station separate from Turbanhalli and arrange for their own filtering when they desire to do so.

6. These proposals which have been made in consultation with our Chief Engineer may therefore be agreed to.

7. It is proposed at present to share the water equally. In view however of the fact that the City is a growing area and its population can increase indefinitely while the Civil and Military Station is restricted in both these respects, it has to be suggested to the Residency that 2½ million gallons a day will be the maximum supply that they can get and that the City might require the whole of the remaining quantity now being provided for and that the principle of division by half and half may be open to revision at the end of the year.

V

8. A draft reply to the Residency on the proposals in the above view is put up in the file and submitted for the approval of His Highness.

9. For meeting the needs of the City certain other works such as the duplication of the rising main are necessary. These are expected to cost about 7 lakhs, so that the total cost of improvements for the City only will come to about ten lakhs. The capital cost of improvements to the water supply to the City has under Government order No.L.2469-72/ Ml.176-19-27 dated 14th September 1922, to be met by the City Municipality and the question of finding the necessary funds is under correspondence with the City Municipality. When the question of ways and means has been settled, the proposals will again be submitted for the orders of His Highness.

T

47

Camp Mysore,
6th June 1925.

7 JUN 1925

Record of Cases submitted for the Orders of His Highness the Maharaja.

Subject.

Improvement of water supply to the City and the Civil and Military Station, Bangalore.

784

Order.

KRW

18/6/25

Chy secy

Move Chief Engr to submit a clear draft memo

19 JUN 1925

P.T.O

Serial No.

A clean draft is put up. It has been got further verified and checked by Mr. Bhore. In his D.O. repg. of date, he has raised the question whether it is the intention of Govt. that the total cost of the common improvements is to be shared by the Govt. & the C of M. Stn in the proportion of $3\frac{1}{2}$ to $2\frac{1}{2}$, as that is the share of the supply of water provided for the two areas. He thinks that the understanding would appear to be that the cost should be shared equally — $\frac{1}{2}$ & $\frac{1}{2}$.

In the circs, the draft may perhaps insert into the word "proportionately" omitted in the concluding portion, for the present.

A D.O. letter from the Residency recd. yesterday is also put for perusal. It is stated that the Resident would like to send his report to the Govt. of India before he goes.

Dewan) The whole question might be allowed to lie over for a few days with a view to

23.6.25.

DEWAN'S OFFICE.
RECD. ON 23 JUN. 1925
Reg. No. 9464

Serial No.

b [illegible] 1924
11 (Revised)

25/6

Para 4 is correct if we agree to give half the quantity of water stored in the Reservoir to the Station according to original agreement. When we are making a representation to the effect that only 2½ million gallons maximum on any one day may be allowed to the Station & the rest should be at the disposal of Bangalore City, it is only equitable & right to say that we are willing to share the proportionate Cost of the common works viz ½ 3½ to 2½.

In this view the last paragraph may be retained. If that is omitted, our case may be weakened.

Dewan

25/6

The Collector may
be addressed
by Confidential
letter asking
the question may be
whether Government to raise
urgent

25.6

Issue at once,

25/6

NOTE—Contn. Sheet

To

The Secretary to the Resident. Pol. no. 1075 & 25.6.25.

Serial No. 24

Communicates the views of the Mysore Govt on the proposed scheme for the improvement to the Bangalore water supply & states that the question of providing necessary funds by the Mysore Govt is under correspondence with the Bangalore City Municipality.

From

The Secretary to the Resident - letter no 538/45-1899 & 27.6.25.

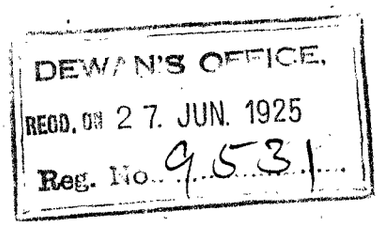
25

Requests that the decision as to the supply of funds may be intimated at a very early date states that for the next 10 years it is essential that the Corporation should insist on its legal rights to a half share in the full amount stored in the Reservoir and suggests a discussion of the question between the Resident and the Dewan.

G.R.S. III—3]

Routine Notes.

[To be used only for notes, requisitions, etc., not intended for permanent record.]



Bangalore Water Supply.

Copy of Residency letter No.5389 dated 27th June 1925 requesting that the decision as to the supply of funds may be intimated very early and stating that it is essential that the Station should insist on its legal rights to a half share in the full amount stored in the reservoir and also suggesting a discussion of the question between the Resident and the Dewan at an early date, is submitted to the Dewan.

C.R. Ramaswamy Rao
Registrar.
27.6.25

Through the Chief Sec:)

Early.

The legal right to half share? Shall we dispose of this matter with reference to the agreement?

27.6

N.B.—Should routine notes be written on small slips, the notes must be copied, or slips pasted on this form.

Serial No.

In his note dated 14th March 1925, the Law + Leg. Secy to govt has given his opinion about the legal right of the British Govt to half the share of water.
Submitted for orders. (Vide Dewan's orders dated 27.6.25 on the previous page of the note).

Govt
27.6.25.

(To be written on this margin.)

Memo No. 1

NOTE.

Dated 1st July 1925.

* placed in separate Closed cover

The accompanying copies of the Dewan's Notes* of discussion with the Hon'ble the Resident from time to time in regard to the Water Supply Scheme are -- forwarded to the Chief Secretary to Govern ment, with compliments, for favor of putting up a draft reply to the Resident in the matter with reference to the discussions.

1.7

The Chief Secretary to Government
with compliments.

A draft reply is put up for consideration.

Dewan) 11.7.25.

Please see remarks in the drafts submitted above

Additions made in draft (para 7) and D.S.N.

Dewan) 13-7-25

Submitted to His Highness.

With reference to His Highness' orders dated 18th June 1925 on the subject of the improvement of the water supply of the Bangalore City and Civil and Military Station, the Residency was informed that the Mysore Government have agreed to the improvements proposed (Vide Pol.No. - 1075, dated 26th June 1925.)

In para 7 of this letter, the question of sharing the increased - water to be stored by the proposed arrangement was also raised. It was pointed out to the Residency that the City is going on expanding on - three sides, whereas the Civil & Military Station is a circumscribed area and it cannot grow, and that the increased water stored in the reservoir cannot be divided equally between the City and the Station. - When the proposed improvements are carried out, the maximum water supply is expected to be increased from 4 millions to 6 millions a day. It was proposed to restrict ~~that~~ the supply to the Civil & Military Station to 2½ millions and reserve the rest to the City.

With regard to the above observations, the Residency have now - stated in their letter No. 5389/45-1899, dated 27th June 1925 that they are unable to understand on what grounds the Mysore Government expect the Civil & Military Station to forego its rights, hitherto unchallenged of utilising a full half share of the Hessarghatta water supply. It is also stated that 2½ millions gallons per day is not sufficient for the Station at present, that even 3 million gallons are inadequate, and it is therefore quite impossible to agree to fix the limit at 2½ millions. It has, however, been added in their letter that the Resident is quite - willing to consider the propriety of allowing the City a larger share in any future increase in storage and is prepared to consider this point with the Mysore Government. But for the next ten years it is said to be essential in the interests of the Station that the Station should insist on its legal rights to a half share in the full amount stored in the reservoir.

Under my instructions, a draft reply has been prepared urging the the following points:-

(1) that though under clause 8 of the agreement the quantity of water to be fixed for the City and the Civil & Military Station should be

equal to each other, clause 10 of the agreement specifies that if at any time the water in the reservoir shall stand at a higher level than tha fixed as the safe minimum level for that season of the year, the excess water shall be at the absolute disposal of the Government of Mysore. It is therefore obvious that there is provision for treating the City in a preferential manner.

(2) At the discussion between myself and the Hon'ble the Resident on the 2nd February 1925, I pointed out that the requirements of the City which may expand without limit during the next 10 years have to be very carefully kept in view and that even at present many of the extensions do not get adequate supply of water; and also referred to the limitations to the development of the Civil & Military Station, to which the Hon'ble the Resident replied that it might be taken as the definite policy of the Government of India that the Station had reached its limit of development and no further development would be allowed; and that the next agreement might be based on the present actual requirements of the Civil & Military Station, which are not fully met with the present allotment of $1\frac{3}{4}$ million gallons.

(3) The population of the City according to the Census of 1911 was 68,651 while in 1921 it rose to 1,18,556. The population of the Civil & Military Station in 1911 was 1,00,834 and it rose to 1,18,940. Thus it will be seen that the rate of increase in the population of the City for the decade is 33.7%, while for the Civil & Military Station it is 17.9%. The City is still expanding and the population is expected to increase in the same proportion during the next decades, if not more rapidly. Therefore the City requires a larger share in the water supply.

The present consumption of water in the City and the Civil & Military Station is about 15 gallongs per head per day. At this rate, the quantity of water required for the Civil & Military Station will be well within $2\frac{1}{2}$ million gallons for the next two decades. It is therefore not clear how in the present letter of the Residency it is stated that $2\frac{1}{2}$ millions or even 3 million gallons would not be sufficient.

55

In the draft reply now proposed all these points have been brought forward. It may graciously be approved.

14 JUL 1925

Dated Bangalore,
14th July 1925.

TSS.

47

D. No. 32
Rec one file

THE PALACE, BANGALORE.

27th July 1925.

My dear Sir,

I am directed to return the accompanying File relating to Bangalore Water Supply, and to say that His Highness approves of the draft letter to the Residency.

Yours sincerely,.

Mirza M. Ismail

Issue today
30.7.25.

Rajamantra Dhurina

Sir Albion Banerji, Kt., C.S.I., C.I.E.,

Bangalore.

Record of Cases submitted for the Orders of His Highness the Maharaja.

Subject.

Draft reply to the Residency in regard to the question of sharing the increased storage of water in the Chamarajendra Reservoir, between the Bangalore City and the Civil and Military Station.

66.
Returned with do letter no 27
dated 24.7.25.

Order.

Serial No.	
26	To The Secretary to the Resident No P&R 102. dt 30.4.1925 Communicates the views of the Govt in regard to the question of sharing the increased storage of water in the ~~Chamarajendra~~ Chamarajendra Reservoir between the Bangalore city and the C. and M. Station.
27	From The Secy to the Resident No 4827 of 23/9/25 Communicating the views of the Hon'ble the Resident in the matter of the proposed sharing between the Mysore Govt and the C&M Station in the increased storage of water at Hessarghatta Sluice. The Hon'ble the Resident's view is that the C&M Station should have its full half share of the increased water supply ~~as~~ provided to be secured by the new sche and the cost of the improve

Sheet

Secretariat | T.P. File No. 30 | of 1924

Serial No

Shares equally by this
[illegible] the extra Katha.
the rate does not
[illegible] the period of the
[illegible] agreement
being reduced from 10 to
7 years as suggested.
The franchise by this
[illegible] of the Cola Kalai
Share of the existing
[illegible] & Tuticorin are
to Jewell Fillers &
also varied again.
The file connected
with the Jewell Fillers
Agreement - ref 2 to
in the last para
of the Collector's
Secl. to the Govt Tuty
dt 12-9-24 after
forwarding the final
draft of the agreement
to the Resident & it
has not yet been
received back.

2. 17/10

Put

The Resident's view is that the extra water should be shared equally and that the cost should be shared

NOTE—Contn. Sheet

Serial No

equally also. This is for consideration.

The question of the Old Stone Shaw gate taken over by Govt is also for consideration. The Resident thinks we should buy up that share

The point regarding sharing the water equally & paying the cost equally may perhaps be conceded.

The suggestion re bringing up the Share of the Tillers does not seem one to be accepted. The position taken in our letter of 30th June is that they may take away their share & there it may be maintained.

The question re the Jewell Fillers Agreement* is not under consideration on this file. The agreement has been separately forwarded for execution by the Govt of India. A reply to that communication may be awaited as regards this file.

MS 17/10

It is doubtful if according to a strict interpretation of the Agreement of 1857 we can specify the claim of the Govt of India to half the quantity of water in the reservoir even after it is expended

* This file would seem to have been delayed under the impression that that file would be required for reference. That file does not seem necessary for disposing of this case. If with any part of any

MS 17/10

I am not satisfied with this explanation. The Supdt should not have called for the file back & should have submitted it at once for orders. He could have called the U.S. of the file regarding the telegram if absolutely necessary - But he should not have called for the file. It would have been very inconvenient to the

Note—Contn. Sheet

Serial No

except of 6 the limit given in cl 10 of the Agreement if the water shall stand at a higher level than that fixed as the safe minimum level for that season of the year & be in excess of the quantity required by the Agreement the surplus will be at the disposal of the Corporation. Mr. Kapse is apparently of the same opinion - In spite of the fact therefore that a further increase in the storage capacity of the Reservoir by raising it from 65 ft to 70 ft will perhaps be more beneficial to the residents of the C of M Station than to the residents of the city and to a certain extent impede the further natural development of the city we are committed to allow them a daily share in the quantity of water available in the reservoir. The immediate result of the increase of storage capacity will lead to a further increase per capita consumption in the C M Station & the fixing of a standard of consumption

NOTE--Contn. Sheet

Serial No

higher than that of the City
It is a pity that the British
authorities have not agreed to any
proposals which while making
every reasonable allowance for
the requirements of the Cantonment
of the C.P.M. Station and their future
needs intended to provide for the
normal expansion in the City
As regards the
financing of the scheme Govt have
agreed to make a grant of the
City Municipal Council of 1/3rd of
the cost & give the balance as
a loan after ascertaining are
getting rupees from the Govt reserves
Your proposals are under consideration
in the L.S.G. Deptt
It does not seem
desirable to agree to buy out the
~~Stone mills~~ Jewell Filters - If
they are useful to us we may
undertake to utilize them paying
a reasonable price when there
is a suitable opportunity
As regards the various
Jewell Filter Movements
this may be taken up
after the main question is settled
The Residency Levels

NOTE---Contn. Sheet

Serial No

send another Communication
to the effect that as the necessity
for improving the water supply
is imperative more urgent works
such as raising the scope sills
of the main reservoir so as to
increase the reserve & putting up
4 miles of pipes may
be taken up at once

The points for decision
now are

(1) whether he may agree
to allow the C.P.M. Station
authorities a right to help
the water subject to cl 10
of the Agreement of 1857
and if so whether he can
provide any safeguard so
as to supply the growing requirements
of the City fully

(2) whether he should undertake
to buy up the plant & machinery
to be dismantled at the Jewell
Filters

The details may perhaps
be discussed in Council

Secretary.
Dewan
Scheme Copies 5/6/25 then
Will be placed in Council
Scheme 10/6/25

RECEIVED
20 OCT 1925
Registry No. 3

U-Smith
put up with
papers

NOTE—Contd. Sheet No. 1
Received

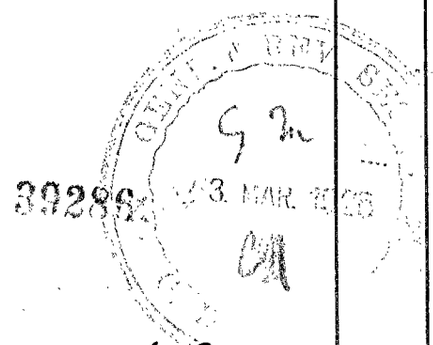
D.O. No. 44. D. 14-2-25

Serial No.

4 Forwarded with Compliments to the Chief Engineer of Mysore for favour of remarks and early return.

By order

M Venkatachar
for Chief Secy. to Govt.
15.2.25



W.O. no 108
PWD
dy 23/3/25

5 Returned, with compliments, to the Chief Secretary to Government.

6 2. Letter no.8604 dated the 1st November 1924 from the Secretary to the Hon'ble the Resident, referred to in the reference under disposal, has not been made available for reference. It is also not known, what orders have been passed by the Government on the note submitted in reply to the report of Mr.Mullings on the Bangalore Water Supply

7 3. The reference under reply, forwards rough estimates for the work required for increasing the storage at Hessarghatta, the draw off from the lake, constructing two new ducts and for other works, these latter being solely for improving the supply to the Civil and Military Station.

8 4. In the plinth area estimate sent by the Assistant Commanding Royal Engineer amounting to Rs 16,47,790 consisting of 9 items of works, we are concerned with only 4 items, viz., 1, 2,3 and 9 amounting to Rs 9,03;800 and the Assistant Commanding Royal Engineer debits half the cost of these works amounting to Rs 4,51,900 to the Mysore Government.

NOTE—Contn. Sheet

9

9/
5. The first item of work is the construction of two new ducts. This work is without question the most important one in the proposals under consideration. The existing duct which was constructed 27 years ago is leaking badly and the water so lost is very appreciable. Its capacity also is insufficient to meet the increasing demands for water. Mr. Mullings recommended a new duct of 4 million gallons per day capacity. The Assistant Commanding Royal Engineer has however provided for 2 ducts of 3 million gallons capacity each. His reasons for this proposal are not convincing. The first reason given is, that "one duct will obviously not achieve the purpose aimed at, viz., the separation of the two water supplies". If separation is the purpose aimed at one common duct will not achieve this purpose.

Serial No.

10/ The second reason given is, that with two ducts, there will be a stand-bye; so long as the present duct is retained, it will serve as a stand-bye even if one new common duct of sufficient capacity to give 6 million gallons a day discharge is constructed.

One common duct of even 6 million gallons capacity will be cheaper in construction, than two ducts of 3 million gallons each.

12/ At the time of the Hessarghatta Agreement, the reservoir and the duct were common and there is no reason to change the arrangement. The agreement makes it quite clear that the reservoir and duct should be common and controlled entirely

Serial No.

by the Mysore Durbar officers. If however the Civil and Military Station insist upon having a separate duct, they may have one. In that case, the present masonry duct will suffice for the city's requirements for some time to come; and it is not necessary for the Mysore Government to spend any money just now on a new duct. In case the Civil and Military Station agrees to have a common duct, the Mysore Government can share half the cost of its construction. Attention is invited to para 17 of my previous note on Mr.Mullings Report.

13 As regards the particular material I have no objection to the Monier pipes being used.

6. 14 The Assistant Commanding Royal Engineer proposes to arrange the draw off through a floating arm. The cost of works necessary in this connection is put down at a lumpsum of Rs 20,000. I do not think this arrangement will be satisfactory as the length of arm required will be more than 33 feet. The present arrangement of draw off from the tank is by means of 3 valves fixed at different levels. This is working quite satisfactorily and with the further improvements now in hand to get a larger discharge into the duct there is no necessity for this.

15 7. The next item of work is 'raising the bund'. The top of bund is, at present, at R.L.78. The Assistant Commanding Royal Engineer provides Rs 70,000 for raising it to R.L.81. This work of raising the bund is unnecessary in as much as there is no idea of raising the weir level to

NOTE–Contn. Sheet

higher than R.L.70 - vide para 11 of my previous note on Mr.Mullings report.

Serial No.

8. 16 The next provision is for raising the weirs to R.L.73. In the note submitted on Mr.Mullings report it has been definitely stated that it is quite sufficient to raise the weirs up to 70. The estimate of Rs 2,20,500 prepared by the Assistant Commanding Royal Engineer for raising the weirs to R.L.73 has therefore to be revised.

9. The other provisions in the estimate are for separate filtration for the Civil and Military Station water supply. The Mysore Government are not to bear any portion of these provisions. The agreement regulating the operation of the Combined Jewell Filters provides for such separation; the Civil and Military Station is quite welcome to have separate filters. The Assistant Commanding Royal Engineer expects a credit of at least half a lakh of rupees from the Mysore Government on account of part cost of the original Jewell Filter Installation. This point has been touched upon in the note on Mr.Mullings report.

Jhs Bhore 21.3.25

Chief Engineer of Mysore

Bangalore,

March 1925.

Recd 23/3

16 Submitted for perusal

19 As we have not yet agreed to the original proposals in this matter it is premature to consider these estimates. The Legal opinion on the other file is awaited

NOTE—Contn. Sheet

24/3

(Chitty) Since recd. & noted upon -

27.3.25.

Serial No

The last sentence — beginning "and this" & the words "for the next 7 years" may — the ½ & ½ may not & the Rule as to Commutation may be changed etc. Perhaps (10 years) Please look & draft reply

4
10

Draft put up.

21/10

Ch Secy

24/10/25

24/10

DEWAN'S OFFICE.
Rec'd. 22. OCT. 1925
Reg. No. 3068

Serial No 31

To.

The Secy to the Resident
No. 3521 dt 4/11/25
stating that there
is no objection to the
City & Station shares of
water being equal for
the present and the question
of giving a larger share
to the City being reserved
for consideration at the
end of next 10 years
Subd for officers &c.
The question of buying
up of the existing
plant and machinery
at the Jewell Filters

Please bring up
mo
13/11

J. 5/11.

Put

The Chief Engineer has stated once before that we cannot buy the Station share of the Jewell Filters. We wrote to the Resy to this effect accordingly.

The Resy now again urge that the arrangement they propose is the most convenient

The Ch Engineer may be consulted again if necy

mo
13/11

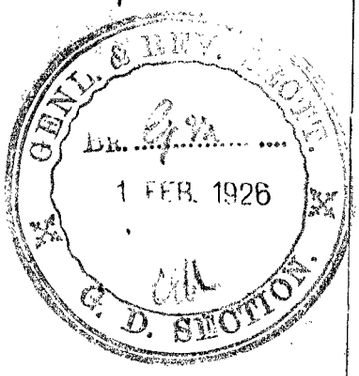
Chdey) 48

Note--Contn. Sheet

Secretariats.

Serial No. 32915

Fr 0-8 p 64
1/2/26



Returned, with compliments, to the Chief Secretary to Government.

2. It is suggested in the Residency letter that the Mysore Government will find the addition filters useful in connection with the increased w supply and an independent valuation may be arrang for.

There are seven units of filters of half million gallons capacity each, and the total quan ty that could be filtered is 3½ million gallons. Wi the execution of the improvement contemplated an after the Lake receives its full supply the maxi consumption that may be allowed for the decade 1924-34 cannot be more than 2 million gallons wh can be filtered with the 4 units. As such ther no urgent necessity to have larger filtering ca city. Therefore if at all one filter or at the two filters of the Civil and Military Station share may be purchased.

As for the value, there is no necessity all for an independent valuation as the outlay the installation by subheads is known and a reason- able value might be fixed by mutual agreement after allowing for depreciation.

Chief Engineer of Mysore.

Bangalore, January 1926.

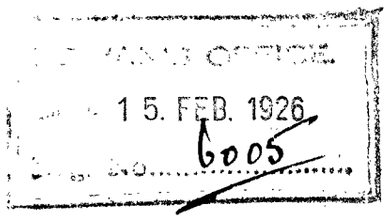
Note—Contn. sheet.

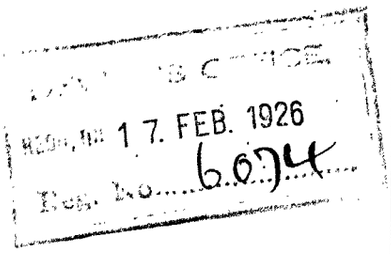
WD 2468—GPB—2,000 copies 20-6-24

General and Revenue Secretariat

T.P. File No. 30 of 1924

Serial No





Submitted to His Highness.

I beg to invite the gracious attention of His Highness to my Submission Note dated the 14th July 1925 on the subject of the water supply of Bangalore. In accordance with His Highness' orders the letter received back with His Highness' approval was sent to the Residency. They have now written stating (1) that for the present the Civil and Military Station should have an equal share of water with the City and (2) that the question of giving a larger share to the City can be considered only at the end of ten years and not - seven years as proposed by us. Agreement was reached practically on all points when we sent our last communication. The only issue remaining was whether the question of the City having a larger share could not be considered now or at the end of seven years in preference to ten years. As the Residency do not agree to the period being seven years the point need not be pressed. It is therefore proposed to say in reply that the Civil and Military Station share of water for the present may be equal to the City share and that the question of a larger share being given to the City may be considered at the end of ten years.

D 2. Draft letter to the Residency to this effect is placed in the file and is for gracious approval.

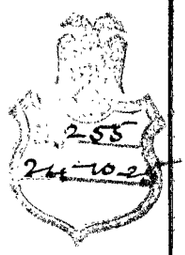
Bangalore,
24th October 1925.

82

SVS

Record of Cases submitted for the Orders of His Highness the Maharaja.

Subject.



Draft letter to the Residency on the subject of the Water Supply to Bangalore.

No: 296

Order.

~~KRW~~

3/11/25

Chief Sec.
The draft letter to the Resident may be issued
Sd
4/11

Minutes
&
Order
MS
4/11

93

should be addressed to the Secretary to the Resident in Mysore, Bangalore, by designation and not by name.

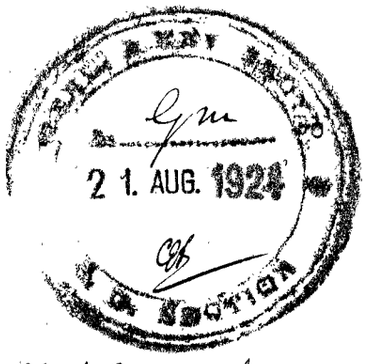
Urgent

No. 6680 En 3.
45-1899.

Gen 981
P.P. 30-24-1

From

A. N. L. Cater, Esq., I.C.S.,
Secretary to the Resident in Mysore.



The Chief Secretary to the Government of
His Highness the Maharaja of Mysore.

Dated Bangalore 21st August 1924.

Copy to Dewan C&B U.S.

WATER SUPPLY OF THE CIVIL & MILITARY STATION OF BANGALORE.

Sir,

With reference to your letter No. Pol.1124, dated the 2nd June 1924, I am directed to forward, for the information of the Government of Mysore, two copies of the report furnished by Mr. Mullings on the water supply of Bangalore. It is proposed to hold a Conference at the Residency at 3 P.M. on Thursday, the 28th August 1924, to discuss the water supply question with reference to the recommendations of Mr. Mullings. The Resident will preside and the following officers will be present:-

(1) The Engineer-in-Chief for India
(2) The Chief Engineer, Southern Command, Poona
(3) Secretary to the Resident
(4) The Assistant Commanding Royal Engineer, Bangalore
(5) Mr. T. Austin, President, Municipal Commission, Civil and Military Station, Bangalore
and (6) Mr. W. H. Murphy, Executive Engineer, Municipal Commission, Civil & Military Station, Bangalore.

The Resident will welcome the presence of a representative of the Mysore Government at the Conference if they desire to depute anyone.

2. In this connection I am to enclose a copy of a letter No. 5494, dated the 18th August 1924, from the Assistant Commanding Royal Engineer, Bangalore, for the information of the Government of Mysore. It will of course be understood that the estimates of expenditure as well as the suggestions for sharing the cost made in this letter are purely tentative and approximate at the present

present stage, and will merely form a basis for discussion.

3. The favour of an early reply is requested.

I have the honour to be,
Sir,
Your most obedient servant,

SECRETARY TO THE RESIDENT.
CSB

BJ

the Resident in Mysore, Bangalore.

---:0:---

WATER SUPPLY - CIVIL & MILITARY STATION.

With reference to Mr. Mullings Report on the Civil and Military Station Water Supply received under your No.6361/45-1899 dated 11th August 1924, I have the honour to state that the figures given in paragraph 17 must not be taken to cover the full scheme. A sum of approximate 1¼ lakhs should be added for subsidiary mains and Reservoirs required for the Civil part of the Civil and Military Station.

2. Mr. Mullings also accepts that the duplication of the Main from Hebbal to High Ground will be completed ahead of the main scheme hence he has not added its cost. This assumption was based on information supplied by me, as an estimate for this work is in hand and funds to the extent of Rs.50,000/- from assigned tract revenue and Rs.40,000/- from the Military Budget are available this year.

3. Again mention should be made that if and when the Mysore Government take over the present Jewell Filters and Plant at Hebbal in their entirety, they should pay approximately 1 lakh to the Civil and Military Station for their share of the plant.

4. The distribution of cost for the whole scheme, excluding the deuplication of Rising Main from Hebbal, would therefore appear to be as follows:-

W o r k.	City share.	Municipal share.	Military share.	Total.	Remarks.
	Rs.	Rs.	Rs.	Rs.	
1. Raising and strengthening Dam.	75,000	50,000	25,000	1,50,000	Items 1 & 2 probably a little on the high side.
2. Raising weirs and providing shutters.	150,000	100,000	50,000	3,00,000	
3. New conduit.	200,000	133,333	66,667	4,00,000	Item 3 probably a bit low.
4. Filters & additional plant at Turbanhalli.	..	200,000	100,000	3,00,000	
5. New clear water reservoir at High Ground.	..	100,000	50,000	1,50,000	
6. Subsidiary Reservoirs & main for Municipality.	..	125,000	..	1,25,000	
7. Miscellaneous.	..	33,333	16,667	50,000	

8. Credit from Mysore Government for Civil & Military Station share of plant at Hebbal.	100,000	..	-1,00,000	..
Total.	525,000	741,666	2,08,334	14,75,000

---:0:---

"C O P Y"

REGISTRAR, RESIDENT'S OFFICE.

BJ

no Pol 208

dt 26-8-1924

To

The Secretary to the

Resident in Mysore.

Sir,

I am directed to acknowledge your letter No.6680/45-1899 dated the 21st August 1924 forwarding copies of the report of Mr. Mullings on the water supply of Bangalore and intimating that there will be a Conference at the Residency on 28th instant to consider the question. His Highness' Government do not propose to participate in the Conference or to send a representative, but will await definite proposals for their consideration. The recommendations contained in the report involve material alterations in the existing arrangements, in regard to which a representative would not be in a position to give any opinion at this stage.

I have, etc.,

Chief Secretary to Government

10

G. R. S. G/33]

GENERAL AND REVENUE SECRETARIAT.

(*Continuation sheet draft form.*)

The Chief Engr

G 1545/Gnd/2 & 26-8-24,

Dear Sir, Mr Rae

With reference to the correspondence ending with this Office letter No G. 151 of the 2nd June 192 I am desired to forward herewith a ~~copy~~ list of the Fittings furnished by the Fittings on the Water Supply of the Old Station and to request you to kindly furnish ~~for the information of Govt~~ a detailed Note on the ~~Report~~ subject ~~immediately~~ very ea

(To be Kindly returned)

^ and/or covering such of CS papers as for the Information Royal Engr

Yours Sincerely

WD 2230—GPB—1,00,000—23-7-20

Dy CS/8 wiam

for Ch. Secy

Gm 1069
P.P. 30-24-4

D.O. No. 6578

CHIEF SECRETARY
29 AUG 1924

Mysore Public Works Department,
Central Office,
Bangalore, 28th August 1924.

Dear Sir,

With reference to your D.O.No.G.1545/P.P.30-24-3 dated the 26th August 1924 enclosing Mr.Mulling's Note on Bangalore Water Supply and asking for my views, I write to state that the note makes reference to certain reports of Lt-Colonels Mahon and Sorsby and to working tables prepared by Lieut.Swan. These are necessary particularly the last to examine the proposals. I shall be obliged by your kindly obtaining the same from the Residency at an early date.

Yours sincerely,

28/8/24

1) Lieut Col Mahon's printed report.
2) Col Sorsby's Note.
3) Lieut Swan's working tables.

K. Matthan, Esq., B.A.,
Chief Secretary to Government,
Bangalore

W. 9th September 1924.

G. R. S. G/33]

GENERAL AND REVENUE SECRETARIAT.

(*Continuation sheet draft form.*)

Sd/- M.C.M. Venkatarama Ayyangar

The Secy to the Resident

Sir,

In continuation of this office letter No Pol 208 dated the 26th August 1924 regarding the water supply of C.J.I.S I am directed to request that, if there be no objection, a copy each of the reports of Col & Mrs and Rowland and the working tables prepared by Lieut. Swan referred to in his Travelling's report may kindly be furnished for the information of-

WD 2230—GPB—1,00,000—23-7-20

Pol. No. 391

R. O. 2.—R. P. B.—8-1923.—5,000.

7396. ENCLOS.

Dated Bangalore, 15th September 1924.

45-1899.

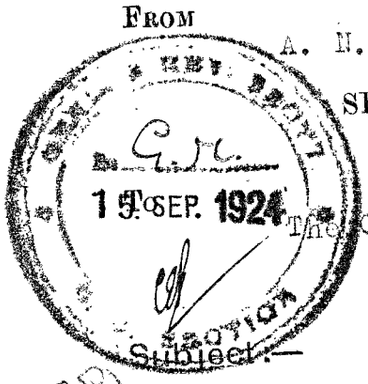
Gm 13 2 21

FROM

A. N. L. Cater, Esq., I.C.S.,

SECRETARY TO THE RESIDENT IN MYSORE.

P.P. 30-24-6



To

The Chief Secretary to the Government of
His Highness the Maharaja of Mysore.

Subject:—

WATER SUPPLY OF THE CIVIL & MILITARY STATION OF BANGALORE.

SIR

With reference to your letter No. Pol.240, dated the 9th September 1924, I am directed to forward a copy each of the following:-

(a)
(1) Report of Lieutenant Colonel Mahon and Colonel Rolland.
(2) Tables prepared by Lieutenant Swan.
(3) Revised calculations prepared by Mr. Mullings to be substituted for Lieutenant Swan's calculations.

I have the honour to be,
Sir,
Your most obedient servant,

SECRETARY TO THE RESIDENT

BJ

G. R. S. G/33]

GENERAL AND REVENUE SECRETARIAT.

(*Continuation sheet draft form.*)

G 2099 / Enclosures 3/18.9.24

The Chief Secy.

Dear Sir,

As desired in your D.O. letter No. 658 of the 28th August 1924 I am desired to forward herewith a copy each of the following and to request that they may kindly be returned with the Note called for in this Office D.O. letter No. G.1576 dated the 26th August 1924:—

1: Here enclose the portion marked (a) in the Residency letter J.

2: In this connection I am to add that

WD 2230—GPB—1,00,000—23-7-20

Cir 1619

Lt-Col. Sorsby's report
mentioned in your letter does not seem
~~has not been~~ to have been
to me in the Dunlop's
report.

Yours Sincerely

[illegible]

~~Assistant Secy~~

Ci

Dl. No 5556
17-11-25

Serial No 1703/2

N.O.No 18/P.

Side E

Forwarded N.O. with Compliments to the Chief Engineer for favour of remarks. (Compare 10 of Res Letter 923-9-25.

SRS 16/11/25

Dr Venkatasubbiah
Asst Secy

S. O.

Government of His Highness the Maharaja of Mysore

GENERAL AND REVENUE DEPARTMENTS.

G. O. No. L. 2469-72—Ml. 176-19-27, dated 13—14th September 1922.

Capital cost of the Water Supply Scheme in Bangalore City.

Directs that the —— should in future be borne by the Municipality.

READ—

Paragraph 5 of Government Order No. L. 6058-65—Ml. 176-19-25, dated the 19th April 1922 passing orders regarding the adjustment of the annual maintenance charges for the supply of water to the Cities of Bangalore and Mysore.

2. Letter No M. 8957, dated the 6th June 1922, from the Chief Engineer of Mysore, seeking instructions regarding the apportionment of the cost of capital works that may be undertaken in respect of the supply of water to the Cities of Bangalore and Mysore in future.

ORDER No. L. 2469-72—ML. 176-19-27, DATED 13—14TH SEPTEMBER 1922.

Government are pleased to direct that the capital cost of all future developments of the Water Supply Scheme in Bangalore City should be borne by the Municipality.

2. As regards Mysore City, the question will be taken up in connection with the general scheme for the improvement of Water Supply to the City, which is now engaging the attention of Government.

T. E. JEYARAMA AIYAR,
Secy. to Govt. Rev. Dept.

To—The Chief Engineer of Mysore.
The Presidents of Bangalore and Mysore City Municipal Councils.
The Comptroller to Government.

Exd—K. P. S.

W.D. 498- GPB—8-10-22—425

NOTE—Contn. Sh

Government of His Highness the Maharaja of Mysore.

GENERAL AND REVENUE DEPARTMENTS.

G. O. No. L. 6058-65—Ml. 176-19-25, dated 19th April 1922.

Charges for the supply of water to the Cities of Bangalore and Mysore.

Passing orders regarding the adjustment of ——

READ—

Government Order No. R. 10401-6—Ml. 176-19-1, dated the 9th March 1920, constituting a Committee for considering the question of the apportionment of charges for the water-supply and electric lighting for the Cities of Bangalore and Mysore, between Government and the two City Municipalities concerned.

2. Government Order No. E. D. S. 223-30, dated the 21st November 1921, laying down a policy for the adjustment of future charges for street electric lighting in Bangalore and Mysore Cities and in the Kolar Gold Fields.

ORDER No. L. 6058-65—ML. 176-19-25, DATED 19TH APRIL 1922.

Government have had under consideration for sometime past, the question of laying down a definite policy in regard to the apportionment of charges for the supply of water and electric power to the Cities of Bangalore and Mysore, between Government and the City Municipalities. With a view to enable Government to arrive at a proper decision in the matter a Committee was constituted under Government Order No. R. 10401-6—Ml. 176-19-1, dated the 9th March 1920, presided over by Rajamantrapravina Mr. P. Raghavendra Rao, B.A., B.L., Member of Council and composed of the Financial Secretary to Government, the Chief Engineer, the Chief Electrical Engineer, the Revenue Secretary to Government and the Presidents of the two City Municipal Councils as members. The Committee met on the 5th July 1920 and submitted their recommendations in respect of the apportionment of both electric lighting and water-supply charges. Government passed orders on 21st November 1921, on the recommendations of the Committee in respect of the apportionment of electric lighting charges.

2. The recommendations of the Committee in regard to the apportionment of water-supply charges are as follows :—

A. Maintenance charges.—(1) that the whole of the amount realised from water tax and excess water charges by the two Municipalities should be handed over to Government towards the annual maintenance charges,

(2) that the two City Municipal Councils should make an effort to increase their income under "Water Taxes" so that they might meet the working charges to reduce which, every effort should be made by the Water Supply Department,

(3) that, when the income is sufficient to meet the expenditure, the Municipalities may themselves take over charge of the work; and

(4) that the period during which the Municipalities should improve their income and prepare themselves to take over charge of maintenance should be fixed at six years in the case of Bangalore City and eight years in the case of Mysore City and that, during this period, the Public Works Department, should try to reduce the expenses, so that the concern might become a self-supporting one so far as maintenance charges are concerned.

B. Capital cost.—(1) that all future capital outlay including the cost of improvements or extensions to the existing supply should be borne by the Municipalities,

(2) that the Municipal Councils may float loans whenever necessary, in case the realizations from the sale of sites in the new extensions are not sufficient to cover the cost.

3. The above recommendations of the Committee were based on the supposition that the annual expenditure incurred by the State for the maintenance of the water-supply systems of Bangalore and Mysore Cities was 2¼ lakhs of rupees, of which, the contribution from the two Municipalities was not more than ¾ of a lakh. It is now found however, that the actual cost of operations of both the systems ranges from Rs. 4,18,000 to Rs. 4,90,000 per year, while the contributions range from Rs. 1,10,000 to Rs. 1,34,000 so that the burden on the State finances on this account is actually over 3½ lakhs per year.

The existing arrangements between Government and the Municipal Councils of Bangalore and Mysore Cities in connection with the supply of water are therefore far from satisfactory, and require revision.

4. In the Bangalore City, the Municipal Council levies a water-rate of three-fifths of the house-tax or three per cent of the rental value of houses. This is a very low rate as compared with the rate of taxation in the Civil and Military Station Municipality where water-rate is fixed at 6 per cent on the rental value of buildings. The collections from this three per cent water-rate amount to about Rs. 40,000 but even this small collection is not entirely paid to Government. The Municipal Council is contributing only a fixed sum of Rs. 30,000 a year under an arrangement sanctioned in Government Order No. Fl. 4815-21—Ml. 88-04-4, dated the 3rd February 1906, thus making a profit to itself of Rs. 10,000. The Municipal Council has to hand over in addition the whole of the collections under excess water charges; but these charges are not promptly collected and are heavily in arrears. The supply of drinking water is one of the primary duties of a Municipal Council, and there is no reason why the Bangalore City Municipal Council should not pay the whole of these charges, enhancing the water-rate to the extent necessary to make the scheme self-supporting. In the Civil and Military Station, the incidence of water-rate per head of population amounts to Re. 0-14-2, while in the Bangalore City, it is only Re. 0-5-5.

In the Mysore City also, the water-rate is only three per cent of the rental value and the incidence per head of population is as low as Re. 0-3-9. The Municipal Council has to pay over to Government the whole of the water-rate collected as well as the excess water charges. But both of these items are heavily in arrears and under the present system, the Municipal Council has no incentive to improve its income from the water-tax. Such a state of things should not be allowed to continue indefinitely and Government trust that both the Bangalore and Mysore City Municipalities will take vigorous steps not only to collect all the arrears both in respect of water-rate and of excess water charges but also to improve their income from water-rate.

5. As regards the future policy in respect of the maintenance of the water-supply systems in the two cities, Government have carefully considered the recommendations of the Committee appointed in March 1920, as well as the views put forward by the two Municipalities in the light of the present financial situation, and are pleased to issue the following instructions:—

(1) The entire charges for water-supply to Bangalore City should be borne by the City Municipal Council from 1st July 1924. For the year 1922-23, the Municipality should pay over the entire collections under water-rate and excess water charges. Half the deficit, if any, in the year 1923-24, should be borne by the Municipality in that year and the entire charges will be transferred from 1924-25.

(2) As regards Mysore City, a contribution from Government will be granted as a special case, for a period of two years from 1922-23 to meet the deficit, if any, but the City Municipal Council should bear the entire cost of the water-supply system of Mysore City from the year 1924-25.

(3) In the meantime, steps should be taken by both the Municipal Councils to raise their rates of water-tax under Section 59 of the Mysore Municipal Regulation so as to balance the income and expenditure, and

(4) All arrears yet to be collected and paid to Government should receive prompt attention of both the City Municipal Councils and a report should be made to Government on the 1st July 1922, showing the Demand, Collection and Balance.

No. L. 6058-65—Ml. 176-19-25, dated 19th April 1922.

6. Before concluding, Government desire to express their thanks to the President and Members of the Committee referred to above for their comprehensive recommendations.

A. V. RAMANATHAN,
Secy. to Govt., Rev. Dept. (in charge.)

To—The Chief Engineer of Mysore.
The Presidents of the City Municipal Councils of Bangalore and Mysore.
The Comptroller to Government.
The Chairman and Members of the Committee with covering letter.
PRESS TABLE.

Exd.—P. S. R. N.

W D 2009—GPB—6-5-22—335

to the Secretary to the Resident in Mysore, Bangalore, by designation and not by name.

No. 8502 E
45-1899.

P.P 30-24-9

From

A. N. L. Cater, Esq., I.C.S.,

Secretary to the Resident in Mysore.

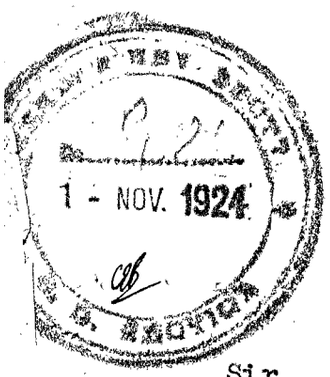
To

The Chief Secretary to the Government of

His Highness the Maharaja of Mysore.

Dated Bangalore November 1924.

WATER SUPPLY - CIVIL & MILITARY STATION, BANGALORE.



Sir,

In continuation of my letter No.7396 dated the 15th September 1924, I am directed to forward for the information of the Mysore Government a printed copy of the Note Minutes of the conference held at the Residency on the 28th August 1924. It has already been agreed in previous correspondence that the water supply both of the City and of the Civil and Military Station stand in urgent need of improvement and, as the Mysore Government are aware, the best method of effecting such improvement has been the subject of protracted investigation. The scheme which has now been accepted by all parties, including the Chief Engineer to the Mysore Government, as the best is that of raising the Hessaraghatta dam. The engineers are now satisfied that this can safely be done and the next step is to consider ways and means of carrying out the proposed improvement.

2. The conference of the 28th August, to which it is regretted that the Mysore Government did not see their way to send a representative, discussed the Programme of Works to be undertaken if Mr. Mullings' recommendations were accepted. The Mysore Government have already had a copy of his report and also a copy of

Colonel

Colonel Mahon's report and the minutes of the conference held at the Residency on the 10th August 1923, at which their Chief Engineer, Mr. J. Bhore, was present and stated that he agreed that the raising of the Hessaraghatta dam and weirs was the cheapest and best way of improving the water supply.

3. I am now to enquire the views of the Mysore Government on Mr. Mullings' proposals and the suggested Programme of Works, and to ask whether the Mysore Government will accept them in principle and will be prepared to bear their share of the cost in such proportion as may be mutually agreed upon.

I have the honour to be,
Sir,
Your most obedient servant,

SECRETARY TO THE RESIDENT.

BJ

Minutes of a Conference held at the Residency, Bangalore, at 3 P.M. on Thursday, the 28th August 1924, to discuss the measures and decide on a programme of work for putting into effect the recommendations made in the Report on the Water Supply of the Civil and Military Station of Bangalore, by C. T. Mullings, Esq., Superintending Engineer, Madras Presidency.

PRESENT.

The Hon'ble Mr. C. C. Watson, C.I.E., I.C.S., Resident in Mysore.

Major-General R. N. Harvey, C.B., C.M.G., D.S.O., R.E., Engineer-in-Chief.

Colonel-Commandant A. Rolland, C.B.E., D.S.O., R.E., Chief Engineer, Southern Command.

Lt.-Colonel I. D. Broughton, R.E., Commanding Royal Engineer, Madras District.

T. Austin, Esq., I.C.S., President, Municipal Commission, Civil and Military Station.

A. N. L. Cater, Esq., I.C.S., Secretary to the Resident in Mysore.

Major A. G. Wheeler, Assistant Commanding Royal Engineer, Bangalore.

W. H. Murphy, Esq., M.B.E., Executive Engineer, Civil and Military Station, Bangalore.

2. In opening the proceedings the Resident announced that the Mysore Government were not prepared to join in the Conference, though they were willing to send any information or data which might be required for the discussion. This was unfortunate as any decision of what is to be done depends on the concurrence of the Mysore Government who should also meet part of the cost. It was decided to proceed with the Conference with the members present although there were certain measures, such as the raising of the weir and dam, to which the consent of the Mysore Government must be obtained as a preliminary step. This, however, need not prevent the Conference from considering the present agenda. Colonel Rolland pointed out that the Military were not so much interested in the matter as the Municipality as there was no present likelihood of any increase in the Military population. As regards the Mysore Government's share of the cost, which was estimated by Mr. Mullings at roughly Rs. 5 lakhs, it was mentioned that they would have to pay for the duplication of their own main from Soldevanhalli to the City reservoir and this would raise their expenditure to about 8 or 10 lakhs. It was decided that the preparation of the estimates was the first step to take, but simultaneously the Mysore Government might be addressed and asked whether they were prepared to accept and take their share in carrying out the recommendations made by Mr. Mullings and, if not, what modifications they would suggest.

3. There were two items for discussion :—

(1) Are the recommendations of Mr. Mullings acceptable to the Conference from a technical point of view ? and

(2) What is the programme of works to be carried out in accordance with those recommendations so far as they are accepted and the probable cost ?

As to (1), Colonel Rolland said that he was satisfied on Mr. Mullings' report that it was safe to raise the dam and the weirs. He agreed with Mr. Mullings that the present system of control over the water supply was complicated and expensive.

The Resident recommended the acceptance of Mr. Mullings' proposals on behalf of the Civil and Military Station and enquired whether Mr. Austin had any remarks to make. Mr. Austin agreed but said that Mr. Mullings had not touched the question of improving the distribution which he regarded as very important. Colonel Rolland said that it was useless to improve distribution until the supply was increased, and that unless meters were universal and stern measures were taken to check the consumption of water in public and private gardens, consumption would simply increase *pari passu* with the supply. Mr. Austin pointed out that measures were being taken to check the consumption of water in public and private gardens; e.g., the free allowance had been reduced; four schemes for providing unfiltered water had been approved by the Municipal Commission. Mr. Austin also wished to enter a formal protest against Mr. Mullings' proposal to abandon the scheme for water-borne sewage. The Conference were in general agreement with the recommendations made by Mr. Mullings so far as item (1) of the agenda was concerned from a technical point of view and the following proposal was made: that plinth area estimates be prepared at an early date by the A. C. R. E., Bangalore, to be sent in draft form to the Chief Engineer, Southern Command, for his approval before submitting them to the Resident. It was stated that the preparation of these estimates would take about three months and the A. C. R. E., Bangalore, promised to push them on. As regards the estimates for items (1) and (2) of the Schedule of Works proposed, viz., the raising and strengthening of the dam and the raising of the weirs and providing shutters, it was stated that these would be dealt with by the Mysore Government although plinth area estimates can be prepared by the A. C. R. E.

4. In discussing item (2) of the Agenda-Programme of Works—Mr. Murphy stated that the present duct was leaking badly and causing a loss of half a million gallons of water daily. It could only supply a restricted population and resort would always have to be made to rationing. It was therefore considered that the construction of new conduits—item (3)—was the most important work and should be taken in hand first, then items (1) and (2), viz., the raising and strengthening of the dam and the raising of the weirs and providing shutters. The other items of the programme should follow on as money permitted. It was thought that the whole scheme of works would take about three years to complete.

5. Colonel Rolland, supported by Mr. Murphy, advocated the construction of two new conduits, each of three million gallons capacity, instead of one of four million gallons as proposed by Mr. Mullings. This would mean a joint duct of 6 million gallons capacity as far as Tarbanhalli to serve both the City and the Civil and Military Station. This would be more economical in construction, as its cost would be borne by three agencies whereas the four million gallon duct would only serve the Civil and Military Station and the Mysore Government would not share in the cost. It was agreed that this was a most important point and the suggestion to construct two new conduits was accepted. The Resident stated that it would have to be agreed to by the Mysore Government. Mr. Murphy thought that the Mysore Government would probably be glad to share in the cost of building a new duct to serve both the City and Civil and Military Station as their engineers fully appreciated the wastefulness of the present duct with its daily loss of about 500,000 gallons of water through leakage, and the impossibility of repairing it. In the result Mr. Mullings' recommendations were accepted with the modification that two new ducts (carrying 3 million gallons each) should be constructed.

6. The question was also raised whether the Mysore Government would be likely to agree to the installation of the filtering plant at Tarbanhalli. Colonel Rolland thought that they would as at present they were pumping up tons of dirty water for several miles. He, however, expressed some doubt as to the estimated cost for this which was put at 3 lakhs. He thought it would probably cost at least 4 lakhs.

7. Referring to the financial aspect, Colonel Rolland thought that the Military should be able to find their share of the cost if the work were spread out over three years, but of course he could not say what view the Quarter-Master General would take. Mr. Austin said that it would be hard on the Municipality if it had to raise the whole of the money required from the Civil because it would mean there would be no balance to meet an epidemic or other sudden emergency and that the standard of sanitation, road maintenance, etc., would necessarily be lowered. He suggested that the Government of India should be asked to sanction a subvention from the Assigned Tract revenues and that it should take the form of part payment of interest and sinking fund on the required loan. It was thought that the state of the finances of the Civil and Military Station and the Municipality at the moment was not unfavourable for the raising of a loan.

8. The Conference accepted as correct the probable cost of the works to be undertaken, as shown in paragraph 17 of Mr. Mullings' Report, with the exception that another item for additional and improved distribution for the Civil Station should be allowed for at an approximate cost of Rs. 1½ lakhs.

Continue
Under Secy
note dated 8.11.24

R. P. B.—19-9-1924.—30.

G 60308 4-2-25

The Municipal Commissioner,

Bangalore City Municipality.

Sir,

I am directed to state that the -- Residency have raised the question of -- improving the water supply of the Civil and Military Station as the present supply is not quite satisfactory and have forwarded for the information and views of Government a report on the subject -- proposing certain improvements in the - arrangements now existing for the supply to the City of Bangalore and the Civil and Military Station. The proposals made in the report are under the consideration of Government.

2. The improvements which it may be necessary to effect and the estimated -- cost are as below:-

I. Common to the City and C & M Station

(1) Raising the weir and providing -- shutters 2 lakhs.

(2) Common duct to convey 6 million gallons of water per day the - present duct being in bad repair and inadequate. 5 lakhs.

(3) Additional filter for filtering half million gallons more per day which quantity will be immediately required in addition to the - present supply. ½ lakh

7½ lakhs.

II. For the City only.

(1) A new rising main as the present one is inadequate and a new and duplicate one is required. 3 lakhs.

The share of the expenditure which will have to be borne on account of the City will be about 10 lakhs, as the C & M Station will not meet any share of the expenditure under Head II, -- while the City will have to bear half the expenditure under (2) and (3) of Head I.

3. Under G.O's No.L.6053.65/M1. 176-19-25 dated 19th April 1922 and - No.L.2469-72/M1.176-19-27 dated 13th/14th September 1922 the capital cost of the - improvements to the water supply of the Bangalore City has to be met by the -- Municipality. I am therefore to request you to obtain and forward to Government the views of the Municipal Council on these proposals, as well as on the question of how th propose to finance the scheme ie., if they would raise a loan providing interest and sinking fund charges therefor from the enhanced water tax and the additional water tax which might be levied on further extensions of the distribution system in the City.

4. As the question has to be settled without much delay I am to request the favour of an arly reply.

I have etc.,

4.2.25

Offg. Chief Secy. to Govt.

Fair draft approved Chief Secy 30/

TMK.

the Resident in Mysore, Bangalore, by designation and not by name.

No. ENG. 7 file
45-1899.

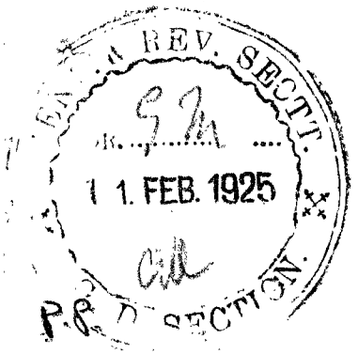
F.&C. 3785
11.2.25.

Pol. 933

P.P. 30-24-11

FROM

A. N. L. Cater, Esq., I.C.S.,
SECRETARY TO THE RESIDENT IN MYSORE.



Chief Dewan 11.2.25

+++

Rev 11/2

To

The Chief Secretary to the Government of
His Highness the Maharaja of Mysore.

Dated Bangalore, 11th February *1925*.

Subject.

WATER SUPPLY - BANGALORE.

SIR,

x Return requested.

In continuation of my letter No.8604, dated the 1st November 1924, I am directed to forward plinth area estimates for improving and augmenting the Bangalore water supply prepared by the Assistant Commanding Royal Engineer. It is hoped that the Mysore Government will give the estimates their early consideration and that they will be able to accept at once item IX of the estimates (caisson work etc. and miscellaneous work - Rs.20,000/-). In this connection a reference is invited to page 8 of the report prefixed to the estimates. The Hessaraghatta tank has never been so low as now and the opportunity for doing this item economically is one that may not occur again for many years.

The favour of a very early reply is requested as regards item IX of the estimates which may not be delayed pending consideration of the larger works.

I have the honour to be,
Sir,
Your most obedient servant

Cater

SECRETARY TO THE RESIDENT.

OFFICE OF THE CITY MUNICIPAL COUNCIL,

Bangalore City, Dated.....18th...March.....1925.

P.P. 30-24-12

From

M. G. KRISHNASAMI RAO., ESQ., B.A.,

MUNICIPAL COMMISSIONER, MUNICIPAL COUNCIL,

BANGALORE CITY.

To

B. Ramaswamaiya, Esquire, B.A., B.L.,

Chief Secretary to the Government of

His Highness the Maharaja of Mysore,

BANGALORE.

SIR,

With reference to your letter No. G. 6030/P.P. 30-24-10 dated 4th February 1925, calling for the views of the Municipal Council on certain improvements proposed for the existing system of Water Supply in the City of Bangalore, which are likely to cost about Rs 10 lakhs and with reference to Government Order No. L 5242/Ml. 131-24-3 dated 22nd January 1925, directing that the maintenance charges of Water Supply in the City should be borne entirely by the Municipal Council from 1-7-1925, I have the honor to state that both these communications from Government were placed before a Special Meeting of the City Municipal Council, Bangalore, held on the 14th February 1925. The Chief Engineer, Mr. John Bhore, who was requested to attend the Meeting, explained in detail the several improvements that were urgently required and laid special emphasis on the immediate necessity of duplicating the rising main. The Council, after much discussion, unanimously accepted the recommendation of the Chief Engineer to immediately duplicate the Rising Main, between the Pumping Station and the Combined Jewell Filters.

2. The next question for consideration was how to raise the amount required for duplicating the rising main. This was considered at the adjourned Special Meeting of the Council held

held on Monday the 16th February 1925. Mr. M.L. Narasimha Iyengar, Assistant Engineer in charge of the City Water -- Distribution Range was present by request. At this Meeting, the Council resolved that the proposals of Government, communicated to the Municipal Council in your letter No. 6030/P.P 30-24-10 dated 4th February 1925, be generally accepted and made arrangements to finance the Scheme by raising a loan not exceeding Rs 10 lakhs, making due provision for a Sinking Fund and the payment of interest therefor. i.e., on the loan. The above resolution was then referred to a Special Committee of the Municipal Council, consisting of 8 members and the Municipal Commissioner, with a request that they should submit a report, within a week, on the following points, Viz.,

(1) the mode of raising the loan,

(2) Devising ways and means for meeting the Sinking Fund and interest charges etc., thereon, and

(3) making such other proposals as may be necessary to giving effect to the above resolution.

3. The Special Committee met in the Council Chamber on the 20th February 1925, from 12 noon to 6 P.M. and submitted an exhaustive report, which was considered in detail at 2 Special Meetings of the Council held on the 28th February 1925 and 7th March 1925. The resolutions of the Council on the subject of improvements to the Water Supply were forwarded from time to time with this Office letters Nos. 114 dated -- 9-3-1925 and No. 120 dated 16-3-1925, to the Secretary to -- Government, Local and Legislative Departments.

4. For the sake of convenience and ready reference, the several resolutions adopted by the Municipal Council on the subject, have been consolidated and a copy thereof is submitted for kind perusal and early orders of Government.

5.

5. The whole scheme depends entirely on the flotation of a loan of 10 lakhs of Rupees. The main features of the Scheme on which specific orders and sanction of Government are required are,

(i) that the loan, (repayable in 30 years) has to be raised by Government, carrying interest not exceeding -- 5 % per annum;

(ii) that Government should be graciously pleased to -- make a free contribution of one-third of the loan, for - reasons mentioned in Resolution No. V of the Council;

(iii) that the Chief Engineer has to be requested to take up at once the duplication of the rising main; and

(iv) that the entire Water Works has to be handed over to the Council only after fully completing the improvements so that the control may vest entirely in the Council from 1st July 1926.

6. In order to meet the Sinking Fund charges and interest on the loan, the Council have resolved to levy certain addtional taxes and to enhance certain existing taxes and tolls, with effect from 1st July 1925. They are set forth in detail in Resolution No. VI of the Council. It is expected that an additional revenue of about Rs 96,000/- will be realised by the aforesaid revision of taxes and by the imposition of fresh ones, which sum will primarily be utilised towards the Sinking Fund and interest charges and the balance if any, will be set apart for meeting the cost of renewals and depreciation charges.

7. As the revision of taxes involves a change in the existing Rules and Bye-laws, necessary steps are being taken in the matter.

8. In conclusion, I may add that this question of improving the existing system of water supply has been pending for a long time and for one reason or another, no serious attempt

attempts seem to have been made in the past to tackle the question, in spite of repeated reminders from Government. It is a source of sincere gratification that the Council, fully realizing the gravity of the situation, has now done its best in concerting measures for its improvement. On behalf of the Council, I now request Government to kindly approve of the several resolutions of the Council and accord their early sanction to the proposals submitted in this letter.

I have the honour to be,

Sir,

Your most obedient servant,

M. Ramaswami Rao

Municipal Commissioner.

Forwarded with Compliments,

Mohammed Ghias Khan

Honorary President.

M.R.

S.M.

D.O.No. 296

BANGALORE.

6th April 1925.

WATER SUPPLY OF THE CIVIL & MILITARY STATION OF BANGALORE.

Dear Mr. Ramaswamiya

I am desired to refer to Mr. Cater's letter No.1208, dated the 11th February 1925, and to say that the Resident will be glad to have the views of the Mysore Government on Mr. Mullings' report as early as possible. The Resident understood from conversation with Mr. Banerji that the Mysore Government were inclined to accept the scheme generally, though on some points of detail further discussion might be required. One of these questions related to the proposal to construct separate ducts for the Station and City respectively. It was understood that Mr. Bhore preferred the scheme of a single duct. There is a good deal to be said for this suggestion and it may be possible for the Station authorities to accept it. Once the views of the Mysore Government are known it will be possible to decide whether any further discussion is necessary and if so, of what nature. The points on which a divergence of views is possible are mainly technical and if there is not complete agreement in every detail the Resident would suggest that the technical questions with regard to which the Mysore Government disagree should be discussed by Mr. Bhore and Lieutenant Colonel Bingay, Assistant Commanding Royal Engineer, Bangalore. The latter officer has had a long experience in working the present system and is thoroughly acquainted with the details of Mr. Mullings' scheme. The Resident thinks that it is more than likely that these officers would be able to settle all outstanding points. The only question of general policy apart from technical details concerns the separation of the distributing systems of the two partners in the water supply. It is suggested that the systems should bifurcate at the point where the water carried by the

joint

joint duct is divided, i.e. near the pumping stations. The Resident trusts that the Mysore Government will agree that it is better that the City and Station authorities should filter and distribute their respective shares separately.

Yours sincerely,

W. Ramus-Gordon.

B. Ramaswamaiya, Esq., B.A., B.L.

Chief Secretary to the Government of

His Highness the Maharaja of Mysore.

BJ

P P 30-24-14

WATER SUPPLY OF BANGALORE.

Dear Mr Ramaswamaiya

Please refer to my demi-official letter No.2961, dated the 6th April 1925.

Colonel A. Rolland, C.R.E., D.S.O., Chief Engineer, Southern Command, proposes to visit Bangalore towards the end of this month. It has been suggested that advantage may be taken of his visit to have an informal Conference between him, Lieutenant Colonel Bingay and the Chief Engineer to the Government of Mysore for discussing technical matters relating to the proposed improvements etc. in the water supply. I will let you know in a day or two whether such a Conference can be held, but in the meantime will you kindly let me know whether the Government of Mysore have any objection to the proposal.

The favour of a very early reply is requested as, if a Conference is to be held, details as to time etc. will have to be settled with Colonel Rolland who is at Poona and with Colonel Bingay who is about to go to Wellington

Yours sincerely

Williams-Gordon.

B. Ramaswamaiya, Esq., B.A., B.L.,

Chief Secretary to the Government of Dewan

His Highness the Maharaja of Mysore.

Subd

The connected papers are before Mr Bhore, for his opinion on the technical portions of the draft reply proposed to be sent on the whole scheme

Whether we may agree to the Chief Engr taking part in the conference is for orders. A doubt was raised, & I believe that he did not attend on one occasion, though he was present on another.

The reply to be sent to the present letter is for orders.

16.4.25

BJ SRR

Urgent

D.O. 1182 CB Dt 20/4/25-

Dear Major Evans-Gordon,

With reference to your D.O. letter no 3209 dated 16th April 25, I am desired to state that the Mysore Govt have no objection to depute Mr. Shore, Chief Engineer, to take part in the proposed informal conference for the discussion of technical matters relating to the improvements etc in the water supply of Bangalore.

Yours sincerely

20/4/25

Chief Secretary.

To

Major H. Evans Gordon,
Secy to the Hon'ble the
Resident in Mysore

P.P 30-24-46

D.O. 2483 / Genl 2
CB. D7 20/4/25

Dear Mr. Bhore,

I am desired to forward for your information a copy of D.O. letter no. 3209 & 16th April 25 from the Secy to the Resident in Mysore in the matter of the proposed informal conference for discussing the question of water supply of Bangalore and a copy of my reply thereto. I am to state that Govt have no objection to your taking part in the discussion relating to purely technical matters without committing the Govt in any way to your opinions

An informal report of the proceedings of the may be sent up for the information of Govt. after the Conference is held.

Yours sincerely
hm
20.4.25
Chief Secy

To
hm
J. Bhore Esqr
Chief Engineer.

Fin 4929

D. O. No. 3447

THE RESIDENCY

BANGALORE.

23rd April 1925.

P.P 30-24-14

REGD 24 APR. 1925
No. 7973.

BANGALORE WATER SUPPLY.

Dear Mr. Ramaswamaiya

With reference to your demi-official letter No.2482/C.B., dated the 20th April 1925, I am desired to say that the Conference regarding water supply will be held at the office of the Mysore Chief Engineer on Monday, the 27th instant at 10-30 A.M. Mr. Bhore and others concerned have been informed accordingly.

Subd for perusal

24-4-25

Dewan

24/4

Yours sincerely,

K. Chamu Gordon.

B. Ramaswamaiya, Esq., B.A., B.L.,
Chief Secretary to the Government of
His Highness the Maharaja of Mysore.

P.N

D. O. No. 3534.

P.M. 4971

THE RESIDENCY,

BANGALORE.

27th April 1925.

P.P.30-24-18

27 April 1925
8020

Bangalore Water Supply.

Dear Mr Ramaswamaiyar

In continuation of my demi-official letter No.3447, dated the 23rd April 1925, I am desired to say that the Conference regarding water supply which had been postponed will be held at the office of the Mysore Chief Engineer on Friday, the 1st May 1925 at 10-30 A.M.

In favour of perusal -

Yours sincerely

K Rama Gordon

Secretary to Dewan

B.O.

27.4.25

Dewan

27/4

L.P.S.D. 24.4.25

B. Ramaswamaiya, Esq., B.A., B.L.,
Chief Secretary to the Government of
His Highness the Maharaja of Mysore.

BJ

SVR

Gms 097 36
P.P. 30-24-19

D. O. No. 607
Gen-1

MYSORE PUBLIC WORKS DEPARTMENT
CENTRAL OFFICE,

Dated, Bangalore the,... 5th..M..a..y.....*1925*

Dear Mr.Ramaswamaiya,

With reference to your D.O. letter No.2483 dated the 20th April 1925 re the Informal Conference, I forward herewith for information or Government, a copy of the Proceedings of the Conference held on 1st May 1925.

Yours sincerely,

5/5/25.

C.B.
Put up with file -
5.5.25

6/5/25
Subd with the file
ge main file re the water supplies is before the C.E. Gens.
6.5.25.

Chief Engr)
Jnl Now ascertained to be before the Hon'ble Dewan)

The files will be submitted soon. 37

Jnl 6/5 -
For perusal.
It will be seen that the opinion of the Chief Engr (Mr Blunt) has been accepted on all the points practically by the Dewan.
9.5.25

Bangalore Water Supply.

Minutes of Conference held at the office of the Chief Engineer, Mysore P.W.D., at 10.30 a.m. on 1st May 1925.

P r e s e n t.

1. Col.A.Rolland, C.B.E., D.S.O., R.E., Colonel Commandant.
2. Mr.J.Bhore, A.M.I.C.E., Chief Engineer, Mysore P.W.D.

Captain T.W.Abbott, R.E., Garrison Engineer. In attendance.

The points discussed were items 1, 2, 3 and 9 of the plinth area estimate amounting to Rs. 16,47,790.

Item No.1.

struction of 2 new ducts.

It was considered that one common duct capable of delivering 6 million gallons per day under pressure would be less costly. It should deliver this quantity of water at Turbanhalli at a point 10 feet above the weir level of present junction chamber under the worst anticipated condition of lake levels. This duct should bifurcate near the junction chamber; one arm with a venturi meter to gauge the discharge, delivering water to the Turbanhalli Pumping Station and the other with a similar meter delivering

water

water into the existing masonry duct to the Goldevanhalli Pumping Station. As the water was to be delivered under pressure, the Monier pipes should be used. The cost was roughly estimated at 4.25 lakhs.

Item No.2

Works costing lumpsum of Rs 20,000 for floating arm and an extra 15" pipe inlet into the Tower.

These works were not considered very urgent, as the existing 15" pipe with 3 inlet valves at different levels was capable of delivering 6 million gallons per day with a head of 8 feet when the existing 15" pipe is thoroughly cleaned. At present this pipe is choked up badly and is being improved under an estimate now in operation.

Item No.3

Raising and thickening the bund at a cost of 2.20 lakhs.

These works are not necessary at present as the proposal to store water up to R.L.73.00 has been modified.

Item No.9.

Raising the waste weir for extra storage of water.

It was considered sufficient to store water in the first instance to a height of 5 feet, i.e., up to R.L.70.00 as the maximum draw off from the Hesserghatta lake is not going to take place for at least 20 years more. If after the expiry of 2 decades from now it is found necessary to store more water, it would not be a difficult matter to do so; the shutters could be removed and refixed after raising the masonry to required height. This work is estimated to cost roughly Rs. 2.25 lakhs.

39

Cost of works as now proposed.

The estimated cost of items 1, 2, 3 and 9 according to plinth area estimate prepared by the Assistant Commanding Royal Engineer was Rs.9,03,800. The works now proposed in modification thereof are roughly estimated to cost Rs. 6.5 lakhs.

Detailed estimates for these should be prepared at an early date.

5-5-25

D. O. No. 631 Sm 7

MYSORE PUBLIC WORKS DEPARTMENT
CENTRAL OFFICE.

Sm 5181

Dated, Bangalore the,....9th..M..a..y... *192*5

Dear Mr.Ramaswamaiya, PP 30-24-22

In continuation of my D.O. No.607 dated the 5th May 1925 re Bangalore water supply, I enclose herein a copy of letter of Chief Engineer, Southern Command, to the Secretary to the Hon'ble the Resident in Mysore sent to me for information with my marginal remarks for information of Government.

12 MAY 1925
Reg. No.....6458

Yours sincerely,

Subd for information — 11.5.25

Dewan) 11.5.25

Please work up
up to date
3 — Ready draft
to be considered
Sec has been read
K 14 5

Letter No.4366/52(E.4) dated the 6th May 1925 from the Chief Engineer, Southern Command, Poona, to the Secretary to the Hon'ble the Resident in Mysore.

I have the honour to inform you that I met Mr.Bhore, Chief Engineer, Mysore, in conference at Bangalore on May 1st in connection with certain points in the estimate for the proposed improvements to the Bangalore water Supply.

We agreed:-

(a) that the C & M Station should separate from the Durbar at Turbanhalli and not draw off separately from the Hessarghatta Tank.

Chief Engineer's remarks

This means that there will be one common duct capable of delivering 6 million gallons per day instead of two ducts giving 3 million gallons a day each.

This will be more economical for both the C & M Station and the Durbar, there is no object in separating before Turbanhalli and to do so would cause long delay and the cancellation of the present agreement between the Government of India and the Durbar wherein the Durbar controls the joint property consisting of the Hessarghatt tank, dam, draw off and ducts to Turbanhalli

Subparas (b) & (c) below follow accordingly:-

(b) that there is no necessity for a second draw-off since the existing 15" draw off pipe will, when clean, carry all the 6 million gallons a day which is the maximum now being arranged for, for both parties combined. The 15" pipe is at present very much choked with a grass like growth but the Durbar is fixing a separate 9" pipe

This refers to the floating arm and other works at the tower estimated by the A.C.R.E. to cost Rs 20,000

33

8/31

for emergent use so that the 15" pipe can be cleaned. Item IX of the estimate can thus be omitted.

(c) that instead of two 30" Monier pipes to Turbanhalli to be owned by the C.& M Station (the second being a standby for that Station), a single 36" pipe for both the C & M Station and the Durbar, capable of carrying the whole 6 million gallons a day, should be provided leaving the present masonry aqueduct - duly repaired - as a joint standby. Thus item I of the estimate for about 6 lakhs is reduced to about 4½ lakhs of rupees.

Refers to one common duct.

(d) that the weirs be only raised 5' instead o the 8' which Mr.Mullings said could be done This will suffice for the increasing population and consumption for at least 20 years. Thus item II of the estimate can be omitted and deferred until the extra 3' is provided, say, 20 years hence. The extra cost then will be only that due to the removal and refixing of the shutters as against which capital expenditure is deferred for many years until necessary.

Item II of the estimate refers to raising and thickening the bund.

2. Assuming acceptance of the above, the estimate can now be divided into two parts, if we ignore any work to be done by the Durbar on their own independent line after separating from the C & M Station at Turbanhalli namely:-

34

A. That to be done by the Durbar but to which the Military and the Municipal Commission

must contribute a share of the cost. This, reduced as in para 1 above, means the raising of the weirs 5' (cost about 2¼ lakhs) and the ~~xxxxxxxx~~ 36" Monier pipe (costing about 4¼ lakhs). This cost of 6½ lakhs will be paid for (a) 1,08,000 by the Military (2) 2,16,000 by the Municipal Commission, and (3) 3,24,000 by the Durbar. One lakh for the Military share is now available and I strongly recommend that allotment of the 2,16,000 and 3,24,000 required from the Municipal Commission and the Durbar respectively be definitely made available at a very early date, i.e., before the end of July 1925, since the order cannot be placed on the firms for the shutters and the pipe until the money is available and it will take 6 months to get the material and fix it after the order is given. Failing this the Military share, now available, will lapse.

B. That required for the C & M Station only namely the new filter station at Turbanhalli, a second electrically driven pump, the duplication of the rising main in so far as not already done and the improvements to the High Level Reservoir and the Distribution system. The cost will be about 10 lakhs less an amount to be agreed upon hereafter with the Durbar for our rights in the Hebbal filters.

The Military and Municipal Commission shares for this will thus be about 3 and 6 lakhs respectively assuming the ratio of capital cost to be as now.

I therefore, also recommend that the Military side and the Municipal Commission side each take early steps to arrange for half their respective shares of B. being available in 1926-27 and the other half in 1927-28. I will budget for the Military share accordingly.

I have, &c.,

(Sd) A. Rolland,
Colonel Commandant
Chief Engineer,
Southern Command.

Copy to:-

Mr.Bhore, Chief Engineer, Mysore State, Bangalore.

Engineer-in-Chief, Simla, for information in continuation of my No.4366/34(E.4) dated the 27th January 1925.

Madras District, for information

D.A.& Q.M.G.Southern Command

C.R.E., Madras District, to arrange for the detailed estimates for the work to be done by the M.E.S. as in para 2 B. above before the end of October 1925.

G.E. Bangalore.

Bangalore, 15th May 1925.

WATER SUPPLY OF THE CIVIL & MILITARY STATION OF BANGALORE.

P.P. 30-24-82

Dear Mr Ramaswamaiyar,

In continuation of Mr. Cater's letter No.1208, dated the 11th February 1925, I am desired to forward a copy of a letter No.4366/52 (E-4), dated the 6th May 1925 from the Chief Engineer, Southern Command.

All outstanding differences of opinions on technical matters having now been cleared away, the points for immediate consideration are briefly as follows:-

1. Whether the Mysore Government is prepared to accept the scheme outlined in Colonel Rolland's letter paragraph 1 (a),(b),(c) and (d). This scheme provides for

(a) complete separation of the two systems at Turbanhalli

(b) the cost of the improvement works up to that point being shared by the Mysore Government and the Civil & Military Station in equal proportions.

2. Whether, if the scheme is accepted, it will be possible for the Mysore Government to make the necessary funds available before the end of July 1925.

There now being no divergence of opinion on technical points the Resident trusts that the Mysore Government will give the scheme their very early consideration.

The subsidiary question regarding the proportional shares of the Mysore Government and the Civil & Military Station in the Jewell Filter at Hebbal may be considered later.

Yours sincerely
Chas. Cater

B. Ramaswamaiya, Esq., B.A., B.E.,
Chief Secretary to the Government of
His Highness the Maharaja of Mysore

BJ

Letter No.4366/52 (E.4) dated the 6th May 1925, from the Chief Engineer, Southern Command, Poona, to the Secretary to the Hon'ble the Resident in Mysore.

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Small Type

I have the honour to inform you that I met Mr. Bhore, Chief Engineer Mysore, in conference at Bangalore on May 1st in connection with certain points in the Estimate for the proposed improvements to the Bangalore Water Supply.

We agreed:-

(a) that the Civil & Military Station should separate from the Darbar at Turbanhalli and not draw off separately from the Hessaraghatta Tank.

This will be more economical for both the Civil & Military Station and the Darbar, there is not object in separating before Turbanhalli and to do so would cause long delay and the cancellation of the present agreement between the Government of India and the Darbar wherein the Darbar controls the joint property consisting of the Hessaraghatta Tank, dam, draw-off and ducts to Turbanhalli. Sub paragraphs (b) and (c) below follow accordingly:-

(b) that there is no necessity for a second draw-off since the existing 15" draw off pipe will, when clean, carry all the 6 million gallons a day which is the maximum now being arranged for, for both parties combined. The 15" pipe is at present very much choked with a grass like growth but the Darbar is fixing a separate 9" pipe for emergent use so that the 15" pipe can be cleaned. Item IX of the Estimate can thus be omitted.

(c) that instead of two 30" Monier pipes to Turbanhalli to be owned by the Civil & Military Station (the second being a standby for that station), a single 36" pipe for both the Civil & Military Station and the Darbar, capable of carrying the whole 6 millions gallons a day, should be provided leaving the present masonry aqueduct - duly repaired - as a joint standby. Thus item I of the estimate for about 6 lakhs is reduced to about 4¼ lakhs of rupees.

(d) that the weirs be only raised 5' instead of the 8' which Mr. Mullings said could be done. This will suffice for the increasing population and consumption for at least 20 years. Thus

item II

item II of the estimate can be omitted and deferred until the extra 3' is provided, say 20 years hence. The extra cost then will be only that due to the removal and refixing of the shutters as against which capital expenditure is deferred for many years until necessary.

2. Assuming acceptance of the above the Estimate can now be divided into two parts, if we ignore any work to be done by the Darbar on their own independent line after separating from the Civil and Military Station at Turbanhalli, namely:-

A. That to be done by the Darbar but to which the Military and the Municipal Commission must contribute a share of the costs. This, reduced as in paragraph 1 above, means the raising of the weirs 5' (cost about 2¼ lakhs) and the 36" monia pipe (costing about 4¼ lakhs). This cost of 6½ lakhs will be paid for (a) 1,08,000 by the Military (b) 2,16,000 by the Municipal Commission and (c) 3,24,000 by the Darbar. One lakh for the Military share is now available and I strongly recommend that allotment of the 2,16,000 and 3,24,000 required from the Municipal Commission and the Darbar respectively be definitely made available at a very early date, i.e. before the end of July 1925, since the order cannot be placed on the firms for the shutters and the pipe until the money is available and it will take 6 months to get the material and fix it after the order is given. Failing this the Military share, now available, will lapse.

B. That required for the Civil & Military Station only namely the new filter station at Turbanhalli, a second electrically driven pump, the duplication of the rising main in so far as not already done and the improvements to the High Level Reservoir and the Distribution system. The cost will be about 10 lakhs less an amount to be agreed upon hereafter with the Darbar for our rights in the Hebbal filters.

The Military and Municipal Commission shares for this will thus be about 3 and 6 lakhs respectively assuming the rates of capital cost to be as now.

I, therefore, also recommend that the Military side and the

Municipal

Municipal Commission side each take early steps to arrange for half their respective shares of B. being available in 1926-27 and the other half in 1927-28. I will budget for the Military share accordingly.

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"C O P Y"

REGISTRAR, RESIDENT'S OFFICE.

BJ

For. 10/5

To

D 25/6/25

The Secretary
to the Hon'ble the Resident
in Mysore, Bangalore.

SUBJECT:-

PP 30-24-24

Improvement of the Water Supply to the City and C & M. Station, Bangalore.

Sir,

With reference to the correspondence ending with your letter No.4127 dated the 15th May 1925 on the proposed scheme for the improvement to the Bangalore Water Supply, I am directed to communicate the following observations of the Government of His Highness the Maharaja of Mysore:-

The main points for consideration are -

(1) the necessity for the increased water supply,

(2) the measures to be carried out to secure the increase,

(3) the share of the cost of works to be undertaken.

2. The storage capacity of the present reservoir at Hessarghatta is - 3,940 million gallons. The City and the Civil and Military Station are now entitled to draw 1¾ million gallons of water daily, with a maximum of 2 million gallons on any one day subject to the condition that the average for six months from January to June

or from July to December must not exceed 1¾ million gallons per day. This quantity which was fixed for the decade 1914-24 is found inadequate. The storage as obtaining at present does not admit of the above limit being increased for the next decade. As the inadequacy of water will be felt more and more hereafter, the Mysore Government agree that the capacity of the reservoir has to be increased to the extent that may be considered necessary and safe.

3. Mr. Mullings' proposals, as modified at the conference held between Col. Rolland, Chief Engineer, Southern Command, Poona, and Mr.J.Bhore, Chief Engineer, Mysore Government provide for the following items of improvement (Vide copy of the former's letter addressed to you received with your letter No.4127 dated 15th May 1925):-

(a) The present weir to be raised 5 feet instead of 8 feet as proposed by Mr.Mullings. This is stated to be sufficient for the increasing population and consumption for at least 20 years.

(b) That the existing arrangement of having a common duct up to the junction chamber at Turbanhalli be continued and the Civil and Military Station have separate and independent system for filtration, &c., beyond this point.

(c) That there is no necessity for either a floating arm or an additional 15"

pipe in the tank sluice tower to draw water as the existing 15" draw off pipe with the improvements now in progress will when cleaned deliver 6 million - gallons a day which is the maximum now being arranged for, for both parties combined.

(d) That instead of two 30" Monier pipes to Tarabanhalli to be owned by the Civil and Military Station (the second being a stand-by for that station), a single 36" pipe for both the Civil and Military Station and the City, capable of carrying the whole 6 millions gallons a day, may be provided, the present - masonry duct being duly repaired to serve as a joint stand-by.

4. The cost of the improvements to the tank and the works up to Tarabanhalli is estimated at about 6½ lakhs of rupees, comprised of, raising the weirs 5' (about 2¼ lakhs) and the 36" monier pipe (costing about 4¼ lakhs). Of this amount 3 lakhs and 25 thousand is proposed to be borne by the Civil and Military Station and a similar amount by the Mysore Government.

5. The Mysore Government agree to the above scheme as outlined in Col.Rollands letter - paragraph 1 (a), (b), (c), and (d), though with reference to the observation contained in the last para of your letter under reply, the Government find

it necessary to state that they will not be liable to give any value for the Civil and Military Station's share of the filters. The Station authorities will be welcome to utilise their share of the existing plant and machinery for their new filtration station.

6. As regards the provision of the necessary funds by the Mysore Government the subject is under correspondence with the Bangalore City Municipality and a further communication will be sent as early as possible to when the funds can be made available.

7. In the matter of sharing the increased storage of water by the Mysore Government and the Civil and Military Station it is necessary to give adequate consideration to the following facts. The population of the City is larger than that of the Civil and Military Station. The City can go on, and is actually going on, extending on three sides. The Civil and Military Station on the other hand is a circumscribed area and its extent cannot grow. This is an accepted feature which has found mention in the minutes of the conference in the Residency on the subject in August 1923. His Highness' Government consider that the increased water stored in the reservoir by the proposed arrangement cannot be divided equally between the City and the Civil and Military Station. The utmost that may be given to the Civil and Military Station eventually will be

2½ million gallons maximum in any one day, and the rest should be at the disposal of the Bangalore City. The requirements of the City which may expand without any limit during the next ten years have to be carefully considered, and, even at present, many of the extensions do not get adequate supply. It is necessary to have an understanding in the agreement to the effect that after 10 years, the principle of division ~~by~~ half and half may be reconsidered If the apportionment is agreed to on the foregoing lines, the cost of the common works of improvement, as explained in the previous paragraphs may be proportionately shared between the two administrations. It is hoped that these views will be acceptable to the Hon'ble the Resident.

may be omitted

I have etc.,

23.6.25

Offg.Chief Secretary to Government.

addressed to the Secretary to the Resident in Mysore, Bangalore, by designation and not by name.

No. 2001 Enc.
45-1899.

(7)

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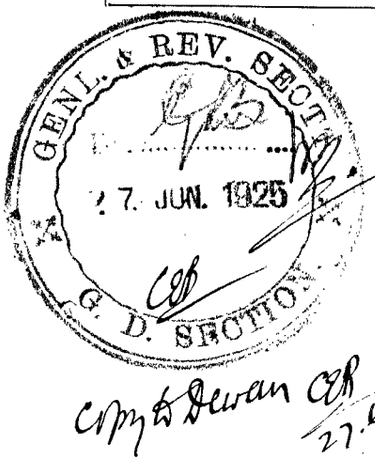

Copy to Dewan CR 27.6.25

From

Major K. A. G. Evans Gordon,

SECRETARY TO THE RESIDENT IN MYSORE.

P.P. 30-24-25

To

The Chief Secretary to the Government of
His Highness the Maharaja of Mysore.

Dated Bangalore, 27th J u n e *1925.*

Subject.

BANGALORE WATER SUPPLY.

Sir,

With reference to your letter Pol. No.1075, dated the 25th June 1925, I am directed to request that the decision as to the supply of funds may be intimated at a very early date. Unless the necessary funds can be made available before the end or July 1925, it will not be possible to spend any money during the current official year as the material required for the work has to be imported from Europe.

2. With regard to paragraph 7 of your letter I am to say that the Resident is unable to understand on what grounds the Government of Mysore expect the Civil & Military Station to forego its right hitherto unchallenged of utilising a full half share of the Hessaraghatta water supply. He wishes to make it quite clear that the present scheme has been taken up on the understanding that the Station would benefit equally with the City from any increase in the supply. At present the population of the City is little if any in excess of that of the Civil & Military Station: in the latter area it is believed that the middle class

element

element is more numerous and this means a larger consumption of water. 2½ millions of gallons per day is not sufficient for the Station at present. Even 3 millions is inadequate and it is therefore quite impossible to agree to fix the limit at 2½ millions. It is hardly worth while undertaking so expensive a scheme for such a small increase in the supply. The Resident is quite willing to consider the propriety of allowing the City a larger share in any future increase in storage and is prepared to consider this point with the Mysore Government. But for the next 10 years it is essential in the interests of the Station that the Station should insist on its legal rights to a half share in the full amount stored in the reservoir. I am to suggest a discussion of the question between the Resident and the Dewan at an early date.

The favour of a very early reply is requested.

I have the honour to be,

Sir,

Your most obedient servant,

Evans-Gordon

Major.

SECRETARY TO THE RESIDENT.

Le 30 A. 1925 (30th July 1925)

To

The Secretary to the Hon'ble
the Resident in Mysore.

Subject.

BANGALORE WATER SUPPLY.

Sir,

The appeal omit with corrections advised below

With reference to your letter No. 5389/45-1899 dated 27th June 1925, communicating the views of the Hon'ble the Resident in Mysore on the proposals of the Mysore Government in the matter of sharing the increased storage of water by the - Mysore Government and the Civil and Military Station, I am directed to state as follows:--

2. Under clause 8 of the agreement of 1897, the Civil and Military Station and the City of Bangalore have equal rights in the water obtained in the Chamarajendra Reservoir (as then constructed and completed) for the purpose of supplying the Station and the City of Bangalore. For seven years from the date of this agreement, one million gallons each per diem was held to be a sufficient supply for the Station and City respectively. At the end of seven years from the date of agreement, and once in every ten years after that period it was to be decided by the officers of the Government of India and

and officers of the Government of Mysore, duly authorised on this behalf, what quantity of water, shall, thereafter, be held to be a sufficient supply for the Station and the City respectively, the quantity for the Station and for the City, thus to be fixed, being equal to each other. It has, however, been further provided in clause 10 of the agreement that, if at any time the water in the reservoir shall stand at a higher level than that fixed as the safe minimum level for that season of the year, the excess water shall be at the absolute disposal of the Government of Mysore.

3. Under clause 8 of the agreement referred to, the quantity of water required was fixed at 1½ million gallons for each party for the decade from February 1904 and at 1¾ million gallons a day for the next decade, 1914-24, subject to a ~~xxxxxxx~~ maximum of 2 million gallons on any one day. The present supply of 1¾ million gallons is now found to be insufficient and it is therefore proposed to increase the storage capacity of the Hessarghatta Reservoir by raising the storage level from 65 to 70 feet, so as to increase the total daily supply from a maximum of 4 millions to 6 miklion gallons.

4. The question for consideration now is how the increased water supply expected from the proposed improvements should be divided ~~equa~~ly between the

Civil and Military Station and the City and to decide what is an adequate supply for these two localities under clause 8 of the Agreement. I would in this connection refer to the striking difference in the rate of growth of the population of the City and the Civil and Military Station. The Census statistics of 1911 and 1921 shew that while the population of the latter has increased by 18,106 or by 17.9 per cent, the population of the City has increased by so much as 29,905 or by 33.7 per cent in a period of ten years. There can therefore be no doubt that the requirements of the City will continue to become greater year after year and the difficulty is to regulate the supply so that it may meet the growing requirements of the City at least during the next ten years.

5. At the discussion between the Hon'ble the Resident and the Dewan of Mysor on the 2nd February 1925, the Dewan pointed out that the requirements of the City which may expand without limit during the next ten years have to be carefully kept in view, and that, even at present, many of the extensions do not get adequate supply of water. He also pointed out that owing to the limitations to the future development of the Civil and Military Station, in regard to which the Hon'ble the Resident had conveyed certain assurances, the next agreement might be based on the present

within the maximum of 2½ million gallons a day proposed to be fixed for the C & M. Station by the Government of Mysore. In the case of the City, however, which is still expanding on three sides, taking the rate of increase in the population at 33 1/3 per cent, which is the actual rate in the past decade, the population in 1931 will be about 1,58,000 and in 1941 it will rise to about 2,10,000. The maximum quantity of water required daily at the same rate of 15 gallons per head will be 2,280,000 gallons in the current decade and 3,260,000 for 1934-44.

The point of view that His Highness' Government would ~~venture to~~ urge on the Hon'ble the British Resident is that although he is prepared, as indicated in the letter under reply, "to consider the propriet of allowing the City a larger share in any future increase in storage and is prepared to consider this point with the Mysore Government," but that "for the next ten years it is essential in the interests of the Station that the Station should insist on its legal rights to a half share in the full amount stored in the reservoir". the difficulty really arises during the next 10 years owing to this equal distribution as suggested and if it is possible to come to a settlement after 10 years by mutual agreement, there seems no insuperable objection to con-

actual requirements of the Civil and Military Station and the City which are not fully met by the allotment of 1¾ million gallons subject to a maximum of 2 million gallons a day.

6. To meet these circumstances, the Mysore Government proposed, in their letter No. Pol. 1075 dated 25th June 1925, to limit the future quantity of water to be supplied to the C & M. Station to a maximum of 2½ million gallons.

7. In the communication now under reply, it is, however, stated that 2½ million gallons per day is not sufficient for the Station at present, and that even 3 million gallons per day is inadequate and that it is therefore impossible to agree to fix the limit at 2½ million gallons. At present the City and C.& M Station are practically consuming at the rate of about 15 gallons of water per day per head. - Assuming the rate of increase in the population of the C & M. Station to be 10 per cent for each decade (as the limit of expansion has been practically reached) the population of the said locality will be about 1,31,000 in 1931 and 1,44,000 in 1941. The maximum quantity of water required daily at the rate of 15 gallons per head will be only 1,96,500 gallons for the decade 1924-34 and 2,16,000 gallons for the subsequent decade which quantities are well within

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consider this aspect of the case at this juncture and if necessary to so adjust the financial obligations of the new joint scheme of improvement that any change in the principle of equal division that may be agreed to may be ratified by a suitable modification of the existing agreement. If however, the Hon'ble the British Resident considers that the requirements of the C & M. Station cannot possibly be cut down to any figure below the maximum of 3 million gallons, then the Dewan would suggest that the period of such equal division be limited for the present to a period ending 1932, i.e., 7 years, and the question of a larger share for the City or to any further increase of supply may then be left open for discussion and settlement. I may add that the Mysore Govt. will be ready to proceed with the joint scheme almost immediately after reply to this communication is received.

I have the honour to be,

Sir,

Your most obedient servant,

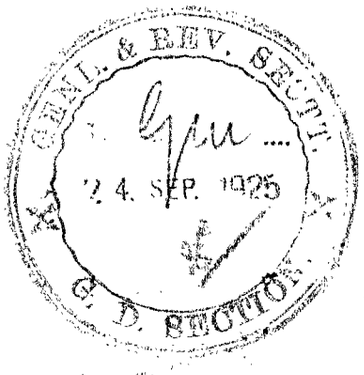
galore, by designation and not by name.

P.P.30-24-27

FROM

Major K. A. G. Evans Gordon,

SECRETARY TO THE RESIDENT IN MYSORE.



Pol. 332

To

The Chief Secretary to the Government of
His Highness the Maharaja of Mysore.

Dated Bangalore, 23d September *192*5.

Subject.

W A T E R S U P P L Y.

SIR,

With reference to your letter No. Pol.102/P.P.30-24-6, dated the 30th July 1925 communicating the views of the Mysore Government in the matter of the proposed shares as between the Mysore Government and the Civil & Military Station, in the increased storage of water at Hessaraghatta I am directed to reply as follows:-

2. The proposal of the Mysore Government, that the Civil & Military Station should in future be allotted something less than the equal share with the City of Bangalore to which the Station is entitled, and the arguments brought forward in support of this proposal have received very careful consideration from the Hon ble the Resident in Mysore, who is naturally anxious that everything possible should be done to meet the wishes of His Highness Government in all matters affecting the future welfare of the State. The requirements of the Civil & Military Station at the present moment and its probable requirements in the near future have been scrutinized and the possibility of any reductions in the average consumption has been discussed with the most experienced civil and military officers concerned. As

if

month of September the abnormal shortage of rainfall in Bangalore which has resulted in the unprecedented depletion of the Hessaraghatta storage and has indicated in an unmistakable manner the precarious nature of the supply on which the whole of Bangalore depends. The Hessaraghatta levels indicate at this moment approximately two months supply of water for the community and it is clear that we are face to face with a critical position in which the deciding factor will be the character of the next North-East Monsoon. If the rainfall in the next two months is abnormally heavy, a temporary respite till next July may be hoped for; but if the rainfall is normal or below normal it is clear that there is a definite danger of the Hessaraghatta water supply giving out before the rains of the next South-West Monsoon can be expected.

3. There is, in the Resident's opinion, only one inference to be drawn from this, viz., that the community of Bangalore has for many years been dependent for its water on a supply which has not that character of permanence which is essential for the prudent provision of a modern community. During a series of favourable years the supply has no doubt sufficed (under restriction) for the steadily increasing demands of the Civil & Military Station & the City of Bangalore: but as soon as a period arrived in which an unfavourable North-East Monsoon (in 1923) was followed by a second unfavourable North-East Monsoon (in 1924), the water supply was reduced to a pitch which is very far below a reasonable margin of safety and which constitutes a very serious threat to the whole of Bangalore.

4. So fully does this inference appear to be justified that we are now witnessing a phenomenon, namely the threatened exodus of a number of the better class citizens of Bangalore, which is frankly attributed to a sudden realisation by the public of the critical state of the water supply. There seems, moreover, to be no reason to doubt that this threat will be carried out if the present shortage of the rainfall continues even for another month.

5. I am desired by the Resident to invite the particular attention of the Mysore Government to the bearing of the present crisis on the proposals for the future shares in the increased water supply.

The first conclusion, which will presumably not be disputed, is that the extent and capacity of the water supply must eventually limit the capacity for growth of the City and Civil & Military Station of Bangalore. It is obvious that if the present rate of increase of the population of Bangalore were maintained a point would be reached where even the increased supply of filtered water would be insufficient for the drinking and domestic purposes of the population. To allow the population to increase up to this point would be equivalent to inviting a series of epidemics of every kind, and no responsible Administration can contemplate such a course.

Secondly, it may be laid down that as the population of either the City of Bangalore or the Civil & Military Station rises to a point where the water supply per capita is reduced to a certain limit an automatic check is introduced whereby the rate of increase of the population is retarded, either by a reduced influx of new residents or by an exodus of the wealthier old residents, such as we must be prepared to witness in the next few months.

6. These conclusions must, to the cautious mind, invalidate to a great extent the force of any arithmetical calculations regarding the probable increase of the populations of the Civil and Military Station and the City respectively, such as are contained in paragraphs 4 & 7 of your letter under reply. The cogency of those calculations, moreover, is considerably reduced by the fact that they are used to support an argument which loses sight of a most important fact, namely that the rate of increase of the population of the Civil & Military Station has of late years been considerably retarded by the relatively smaller allowance (per capita) of water than the allowance which has been made hitherto to the City population. Now that the shortage of water is being felt more or less equally in both places there would seem to be no

justification

justification for assuming that the greater rate of increase in Bangalore City will necessarily be maintained during the next few decades.

7. In any case there appears to be an insuperable objection to the fixation of any unequal division of water between the City and the Civil & Military Station on the basis of population: the suggested method of calculation would be based on an entirely new line of reasoning which, it would appear, was not put forward or accepted by the Mysore Government in the past when the population of the City was very considerably below that of the Civil & Military Station. There is no doubt that a distribution of water (based on a population basis) in the past would have benefitted the Civil and Military Station considerably and might possibly have given it a decisive lead over the City in the matter of population for all time: but no trace can be found of any suggestion that the Civil & Military Station should have been given the benefit of its greater population in connection with the amount of water to which it was entitled.

8. Further, the population of the Civil & Military Station being to a considerable extent military, the rate of increase of the military portion of the population is governed by forces other than those of a purely social or economic character. Just as in the past the military population of Bangalore has on occasion risen to many times its normal numbers, and again has occasionally fallen below its normal numbers, so we must make provision for a similar sudden increase at any time in the future, should such an increase be necessitated by purely military reasons.

9. The inevitable conclusion appears to be that there are overwhelming reasons against the acceptance by the Civil & Military Station of any share other than its full half-share of the increased water supply which it is hoped to secure by the new scheme. This fact at once makes it unnecessary to consider the possibility of adjusting the financial obligations on the basis of unequal shares.

As to the reduction of the ten-year period of renewal to a seven-year period, as suggested in the last paragraph of your letter, this reduction would not appear to be desirable as a seven-year period is not sufficient to allow of a fair appreciation of any changes in the populations and the variations of the increased supply. A ten-year period would seem to be the minimum required for this purpose.

10. I am to invite attention to paragraph 5 of your letter Pol. No.1075, dated the 25th June 1925 regarding the question of an adjustment of the value of the Civil & Military Station's share of the existing plant & machinery at the Jewell Filters and to suggest that it would be to the interest of both parties if the filters, instead of being dismantled & removed as suggested, were submitted to a ~~fixx~~ fair & independent valuation for transfer to the Mysore Government in their present site. It may be possible that the Mysore authorities will find these filters of use and value in connection with the increased water-supply.

11. If the present scheme is carried through at an early date the necessity for renewing the Filter Agreement will be a fit subject for consideration.

I have the honour to be,

Sir,

Your most obedient servant.

Evans-Gordon

Major.
SECRETARY TO THE RESIDENT.